

APM TECHNOLOGIES

PROFESSIONAL INNOVATIVE BRANDING SERVICE



High Power DC Load

User Manual >>







Part NO. 18950-726-00

Contents

Preface	05
Safety Notices	06
1 About this Manual	07
1.1 Scope	07
1.2 Targeted Audience	07
1.3 Use of this Manual and Legal Notices	07
2 Unpacking	08
2.1 Packing List	08
2.2 Checking for Shipping Damage	09
2.3 Failure Repair	09
3 Products Introduction	10
3.1 Product Description	10
3.2 Product Features	10
3.3 Operation Instructions	11
3.4 Operation Environments	11
3.5 Maintenance and Cleaning	11
3.6 Product Storage	11
3.7 Power Supply Voltage	12
3.8 Fuse	12
3.9 Warm-up Time	12
3.10 Starting Procedure	12

SERVICE



4 Panel Description	13
4.1 Front Panel Description	13
4.2 Rear Panel Description	15
5 Menu Operation	16
5.1 Menu Introduction	16
5.1.1 Menu Structure	16
5.1.2 Introduction to Front Panel Operations	18
5.1.3 Keys, Rotary Knob and Touch Screen Operations	18
5.2 Menu Operation	21
5.2.1 Menu Introduction	21
5.2.2 Load	22
5.2.2.1 Constant Current Mode	22
5.2.2.2 Constant Voltage Mode	23
5.2.2.3 Constant Risistance Mode	24
5.2.2.4 Constant Power Mode	25
5.2.2.5 Dynamic Current Mode	26
5.2.2.6 Dynamic Voltage Mode	27
5.2.2.7 Dynamic Risistance Mode	28
5.2.2.8 Dynamic Power Mode	29
5.2.3 Advanced	30
5.2.3.1 BATT (Battery Discharge Timer)	30
5.2.3.2 OCP/OPP	31
5.2.3.3 Program setting program sequence function	32
5.2.3.4 CV-CC	34
5.2.3.5 CV-CR	35
5.2.3.6 CR-CC	35
5.2.3.7 Auto	36
5.2.3.8 LED	37



5.2.4 Configure	37
5.2.4.1 Load Setup3	37
5.2.4.2 Protection	39
5.2.4.3 Paral/Sync	39
5.2.4.4 SPEC	10
5.2.4.5 Digitizing	41
5.2.4.6 Timing	41
5.2.5 Save/Recall	41
5.2.6 Warning	41
5.2.7 System Settings	41
5.2.7.1 Settings	12
5.2.7.2 Date	12
5.2.7.3 RS232/485	12
5.2.7.4 TTL/Analog4	13
5.2.7.5 LAN	13
5.2.7.6 GPIB	14
5.2.7.7 Info	14
5.2.7.8 Factory	14
5.2.7.9 Calibrate	14
5.2.7.10 Upgrade	14
6 Parallel Operation	15
6.1 Parallel Procedure4	16

SERVICE



7	Installation	47
	7.1 Overview and Dimensions	. 47
	7.2 AC Input connection	. 48
	7.3 Load Connection	49
	7.4 Remote Sensing Connections	50
8	Troubleshooting	. 53
9	Recycling and Disposal	54
1(O Contact Us	. 54
A	ppendix A Specifications	55
Α	ppendix B Warranty	108

Issue PB (2020-04)



Dear Customer,

Thank you for using this series High Power DC load, a product developed & manufactured by APM Technologies. We sincerely hope this product can meet your needs.

The sections outlined in this user manual are suitable for the following product models.

Height	Power	200V	600V	1200V	Flippable Front Panel
1/2 2U	300W	30A	20A	*	NO
1/2 20	600W	60A	35A	*	NO
	1.2kW	130A	90A	45A	NO
2U	1.8kW	190A	130A	*	NO
20	2.4kW	260A	180A	90A	NO
	3.0kW	320A	220A	*	NO
	3.4kW	370A	250A	125A	NO
3U	4.4kW	480A	320A	160A	NO
	5.6kW	610A	410A	210A	NO
4U	6.6kW	720A	480A	240A	YES
	8.8kW	960A	640A	320A	YES
7U	11kW	1200A	800A	400A	YES
	13.2kW	1440A	960A	480A	YES
	15.4kW	1680A	1120A	560A	YES
10U	17.6kW	1920A	1280A	640A	YES
	19.8kW	2160A	1440A	720A	YES
	22kW	2400A	1600A	800A	YES
13U	24.2kW	2640A	1760A	880A	YES
	26.4kW	2880A	1920A	960A	YES

This series High Power DC load are divided into Advanced Version and Professional Version according to different application area. Below is the difference between two versions.

NO.	Description	Single unit (Professional version)	Single unit (Advanced version)
1	Dynamic frequency sweep function	Supported	Not supported
2	Sine wave dynamic load	Supported	Not supported
3	High speed sampling rate	Supported	Not supported
4	Non linear load	Supported	Not supported
5	User defined waveform	Supported	Not supported
6	MPPT	Supported	Not supported
7	External waveform control	Supported	Not supported
8	Parallel mode	20pcs	10pcs



Safety Notices



This symbol highlights operations that have the potential to endanger users, operation procedures and instructions must be completely understood before use.



Documentation must be consulted in all cases where this symbol is marked.



This symbol highlights important instructions that need to be read before using the equipment.



This symbol indicates of high voltage risk aspects of the product or its use.



This symbol indicates parts that may be at a high temperature. Please do not touch this part of the equipment to prevent scalding.



This symbol indicates that a grounded condition is required before operating the equipment; the terminal with this label must be grounded to prevent electric shock.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

About this Manual

1.1 Scope

This manual provides the reader with detailed product information as well as installation, operation and maintenance instructions. This manual also provides our company contact information so that you can tell us your suggestions and comments about the performance of our products in order that we can continue to improve our product quality and our level of service.

1.2 Targeted Audience

This manual is intended for product users and technical personnel that are involved with installing, operating and maintaining the product. Readers are required to have a certain degree of electrical and mechanical knowledge and be familiar with basic electrical and mechanical schematics.

1.3 Use of this Manual and Legal Notices

All materials (including but not limited to graphics, logos, symbols, data, etc.) in this manual are owned by the APM Technologies. No part of this manual can be reproduced without prior authorization from APM Technologies.

The content of this manual will continue to be updated and revised as inevitably there are slight discrepancies or errors. Please check for updates at en.apmtech.cn and download the latest version of this manual and information.

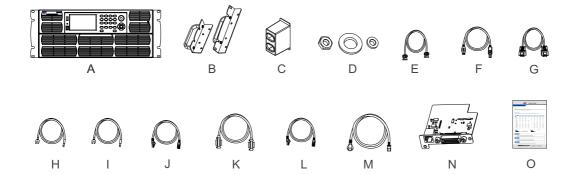
It is prohibited in any way to use all or part of the firmware or software developed by APM Technologies for other commercial purposes. It is prohibited to decompile, decrypt or otherwise damage the software developed by APM Technologies.



2 Unpacking

2.1 Packing List

Item	Description	Quantity	Remarks
Α	High Power DC Load	1	As ordered
В	Rack Mount Brackets	2	Standard
С	DC input protective cover	1	Standard
D	Screws	1bag	Fasten item B
Е	BNC cable	2	Standard
F	USB communication cable	1	Standard
G	RS-232 communication cable	1	Standard
Н	Sense line (Red)	1	Standard
I	Sense line (Black)	1	Standard
J	System bus communication cable	1	Standard
К	GPIB communication cable	1	Optional
L	LAN communication cable	1	Optional
М	Power wire	1	Standard
N	GPIB&LAN communication card	1	Optional
0	Quick guide	1	English Version





2.2 Checking for Shipping Damage

All APM Technologies Company products have undergone stringent testing before delivery, but inevitably damage can happen during transportation. Once you receive the product, please immediately check if there is any packaging damage that may indicate damage to the product. If you find damage related to product delivery, please immediately notify the transport company. Make sure to take photos documenting the damage to the product, and send them to us so that we can provide you with the best service.



Caution

- The handles on the front panel are for sliding in and out of the cabinet NOT for carrying.
- Because of its weight, transport by hand should be avoided where possible. If unavoidable then only the housing should be held and not on the exterior parts (handles, input/output terminals or rotary knobs).

2.3 Product Damage or Failure Repair

In the unlikely event of product failure, please promptly contact APM Technologies or its dealer and provide the serial number of the faulty DC loads, detailed fault information and pictures to help us identify the cause of the failure. If the power source requires repairing at the factory or repair center, please pack it in the original packing material. Please assure to contact APM to receive prior authorization for the product return and return instructions.



Products Introduction

3.1 Product Description

This series E-loads provide CC, CV, CP, CR, CZ and dynamic load operation modes commonly used for performance and burn-in test of power supply. Full protection including OCP, OPP, OTP, over voltage and reverse alarm. Support external control and monitor mode, the 0 to 10V input or output signal represent 0 to full range voltage or current. Standard RS232/RS485/USB communication interfaces, LAN & GPIB communication card is optional. Support power expanding by master-slave paralleling.

3.2 Features

- Flippable front panel and color touch screen allow convenient access and operation.
- Provides four kinds of basic working mode such as CV/CC/CR/CP, and CV+CC/CV+CR/CR +CC complex operating modes.
- Adjustable current slew rate, adjustable CV loop speed.
- Ultra high precision voltage & current measurement.
- OCP/OPP testing function.
- 50kHz high-speed CC/CR dynamic mode.
- 500kHz high-speed voltage and current sampling rate.
- Timing & discharging measurement for batteries.
- Short circuit test mode.
- Auto mode function provides an easy way to do complicated test.
- Dynamic frequency sweep function for determining worst case voltage peaks.*
- Non linear load mode function makes the simulated loading current more realistic.*
- Supports external analog control function.*
- V-monitor/I-monitor.
- LED load simulation function.
- Full protection: OCP, OPP, OTP, over voltage and reverse alarm.
- Up to 20 units master/slave parallel control.
- Front panel USB interface supports data import and export.
- SCPI language and standard rack size make it ideal for ATE System intergration.
- Smart fan control with lower noise and better for environment.
- Multi versions to meet the cost performance and different applications.
- * Only professional Electronic Load units support these functions.

3.3 Operating Instructions

This product is a precision instrument, please read this manual carefully before using. In order to ensure measurement accuracy it is recommended that this unit is calibrated annually by a calibration laboratory.

To ensure the user safety, the input power cable, connector and accessories of this product should be inspected at least annually.

3.4 Operating Environments

- 1. This series E-Loads must be used in a clean and dry lab or testing environment with an ambient temperature of between 0°C and 40°C and a relative humidity of between 5% and 95%.
- 2. Do not use this load in a hige temperature ambient for a prolonged period. Long term operation at a high ambient temperature may cause OTP action.
- 3. It is suggested that the distance between the load and wall or other objects should be 1 meter at least due to fan forced cooling.
- 4. Do not operate this product in an environment that contains large amounts of dust or corrosive gases. Please do not subject the unit to strong shock and vibration or expose it to intense direct sunlight.

3.5 Product Storage

Please store this product in an area with a temperature between -20 and 85 and with a relative humidity of between 5% and 95% non-condensing. If the product is not going to be used for a long period, please pack in the original carton or other similar packaging and store it in a cool & dry place.

3.6 Maintenance and Cleaning

Before cleaning, you must disconnect the input power cord of this power source. Gently wipe off any dust from the units exterior using a brush or sponge or one can use only a small amount of non-aqueous cleaning solution such as isopropyl alcohol on a clean cloth. Do not use a corrosive or abrasive cleaning solution to clean this product. The display front panel can be cleaned with cloth dampened in soft detergent. Cleaning of dust from the interior of this product must be carried out with a low pressure air gun, and to prevent damage to internal components we suggest that such cleaning be performed by an authorized dealer on behalf of the user.



3.7 Power Supply Voltage

Make sure that the front panel switch is in the OFF state and the AC input mains voltage is within the product's operating specification before plugging in or connecting to the AC mains.



 The protective safety earth/ground connection must be connected first and disconnected after the AC mains line and neutral wires.

3.8 Fuse

The input AC fuses installed inside the product are designed to protect the units' input from major component failures, and they should not fail under normal operating conditions. Accordingly, any fuse failure is an indication that other parts of the product are damaged. If the input fuses open circuit we recommend that the product be sent back to us for repair.



 Danger of electric shock. No user serviceable components enclosed. Do not disassemble the load's enclosure / case to replace the fuse.

3.9 Warm-up Time

Once the power source is switched on the unit will enter a start-up routine that when completed which will verify proper unit operation. All features of the unit are operable after this routine has been successfully completed. In order to achieve the specified operating accuracy, it is recommended to allow the E-load to warm-up for a period of 30 minutes before use.

3.10 Starting Procedure

When switch on power, E-load will have a series of self test. After power on, Name of company show out.





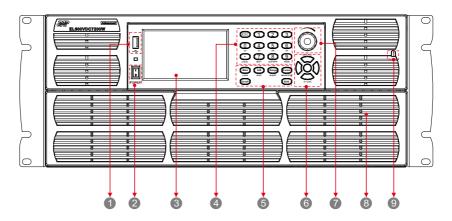


After 2 seconds, it will enter the self-checking page:

After several seconds, the LCD will display the Diagnostics screen. The diagnostics will take several seconds to complete. If all results are OK, the unit will revert to the default screen. If there is a Fail result in any of the other tests, please contact APM technical engineer for support.



4.1 Front Panel Description



Front Panel-4U Models as example

- USB host, for data import and export
- Power switch
- Color touch screen
- Mumeric keys and function keys

SERVICE



Keys	Name and the function	Manual Reference
@~⑨	Numeric keys	[0]~[9]
(LOCAL)	Decimal point key / Keypad unlock function key / Press this key to switch the control mode from remote control back to the manual operating mode	
ESC	Esc key	[ESC]
CC (Shift + 1)	CC mode	[Shift]+[0]
CV (Shift + 4)	CV mode	[Shift]+[4]
CR (Shift + 5)	CR mode	[Shift]+[5]
CP (Shift + 6)	CP mode	[Shift]+[6]
BATT (Shift + 1)	Battery discharge timer	[Shift]+[7]
OCP/OPP (Shift + 1)	OCP or OPP test function.	[Shift]+[8]
PROG (Shift+9)	Program function	[Shift]+[9]

§ Function keys and multifunction keys

Keys	Name and the function	Manual Reference
A/B	It switches the load to A and B two types	[A/B]
Cursor	Cursor to highlight desired selection	[Cursor]
Main	Press to return to the Main screen	[Main]
On/Off	The loading and unloading function key	[On/Off]
SHORT (Shift + Range)	It simulates the short circuit function	[Shift]+[Range]
Shift	Select alternate function of other keys as indicated by silkscreen directly below key	[Shift]
IMAGE/FILE (Shift + Cursor)	Screen snapshot/importing	[Shift]+[Cursor]
SPEC (Shift + A/B)	It provides GO/NG to test loading specification when enabled	[Shift]+[A/B]
LOCK (Shift + Main)	Press to lock the front panel keys and touch screen function	[Shift]+[Main]
Range	Loading mode range selection	[Range]

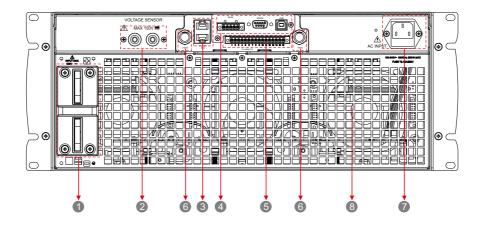
6 Enter key and arrow keys

Keys	Name and the function	Manual Reference
RECALL (Shift + 🐼)	Recall setup from internal non-volatile memory	[Shift]+[▲]
STORE (Shift + 🕶)	Store setup to internal non-volatile memory	[Shift]+[▼]
0	Used to move the cursor to the previous position	[]
()	Used to move the cursor to the next position	[•]
Enter	Confirm key	[Enter]



- Push-on knob, for editing parameter and moving the location of cursor
- Wentilation holes
- Stylus

4.2 Rear Panel Description



Rear Panel-4U Models as example

- Load positive/negative terminal
- 2 Remote sense connections
- 3 System Bus, for mater/slave system datatransmission
- RS485/RS232/USB communication Interface (standard), LAN&GPIB communication Interface (optional)*
- 5 External TTL/Analog control interface
- O V-monitor/I-monitor
- AC input connector
- Wentilation holes
- * When LAN&GPIB interface card selected it will be installed here instead of RS485/RS232/ USB interface card.

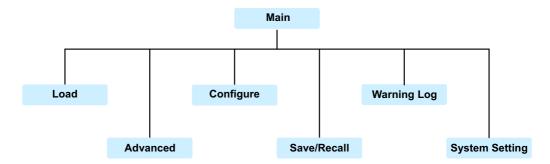


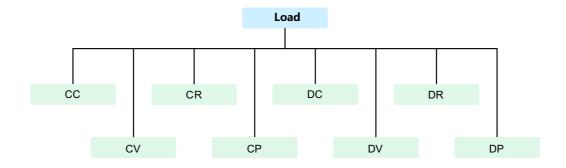


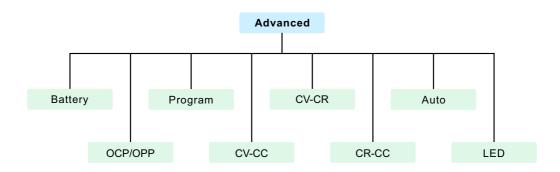
Menu operation

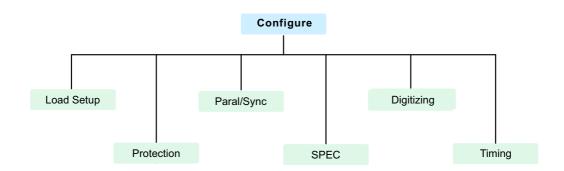
5.1 Menu Introduction

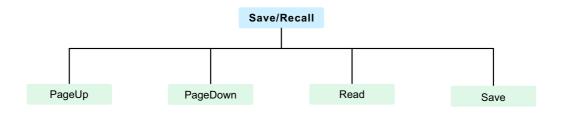
5.1.1 Menu Structure

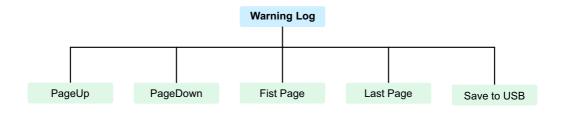


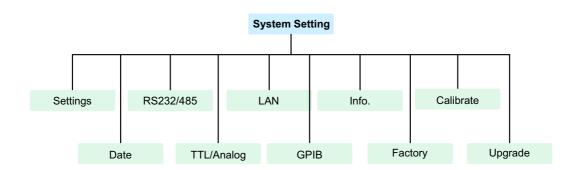














5.1.2 Introduction to Front Panel Operations

- 1. Front panel [ON/OFF] key is used for loading and unloading.
- Control modes include Front Panel control, Remote control and External control, the first two can be selected by a connected computer. The operating mode can be changed without affecting the loading state.
- 3. All front panel keys are functional when the load is in Front Panel operation mode.
- 4. Under remote operation mode, all Front Panel keys except the [Local] key are locked. The [Local] key can be used for switching to local operation mode.

5.1.3 Keys, Rotary Knob and Touch Screen Operations

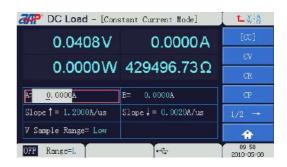
The examples below explain how to setup the current and select menu through keys, rotary knob and touch screen separately.

Current setting

Option one (using front panel keys)

- 1. Press the [Cursor] key, then press the arrow keys to move the cursor to highlight the settable parameters.
- 2. Press [Enter] key first when the cursor highlight the current setting, press the numberic keys [0]~[9] to set the desired value, then press the [Enter] key to confirm.









Option two (using rotary knob)

- 1. Press the [Cursor] key, then press the arrow keys to move the cursor to highlight the settable parameters.
- 2. When the cursor highlight the current setting, press the knob, the default location of the cursor is at the highest digit, turn the knob to change this digit value to increase or decrease the setting. Long press the knob for 1.5 seconds to confirm and finish the setting.

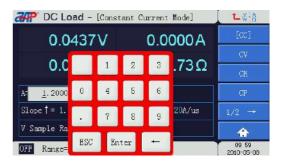






Option three (using touch screen)

- Touch the desired value area, a small keyboard will be displayed as shown below.
- Touch the numeric keys [0]~[9] as desired, then touch the [Enter] key on the small keyboard to confirm.



SERVICE



Menu setting

Option one (using front panel keys)

- 1. Press the [Cursor] key.
- 2. Press the arrow keys to move the cursor to highlight the desired option then press the [Enter] key to confirm.



Option two (using rotary knob)

- 1. Press the [Cursor] key.
- Turn the knob to move the cursor to highlight the desired option then press the knob to confirm.



Option three (using touch screen)
Touch and select the option directly.

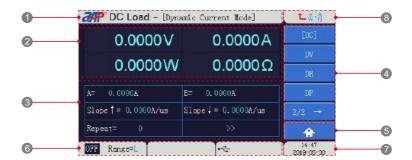


5.2 Menu operation

We will explain menu operation using the front panel keys as touch screen operation is selfexplanatory.

5.2.1 Menu introduction





- Current active menu of the load
- Measurement parameters of the load
- Parameters setting area of the load
- Sub-menu
- Selects main menu
- © Current state of the load
- Time and data
- Shortcut key back to operation mode

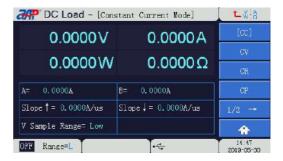
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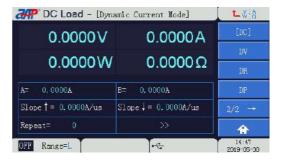


5.2.2 Load

This screen allows control over the following settings using these soft keys:

- CC
- CV
- CR
- CP
- DC
- DV
- DR
- DP





5.2.2.1 Constant Current Mode

In CC mode, the Load will sink a current in accordance with the programmed values regardless of the input voltage. To enter into CC mode, please press the [Main] key, select Load then select CC mode.



Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.

Slope↓: set the current fall slew rate data.

V Sample Range: set the voltage measurement range of Electronic Load. There are H, M and L for selection.



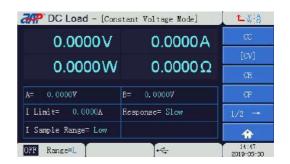
Current could be programmed in each range, low range, middle range and high range. At low current setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If CC mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

A/B State Switch

Static function has two setting level A or B. Use the [A/B] key to manually switch between two programmed load states. Slew rate determines the rate at which load level changes from one load level state to another.

5.2.2.2 Constant Voltage Mode

In CV mode, E-load will sink current to control the voltage source in programmed value. CV mode has 3 types of response speeds: fast, normal and slow. To enter into the CV mode, please press the [Main] key, select Load then select CV mode.



Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

I Limit: set the maximum current for load.

Response: set the Electronic Load response speed to Fast, Normal or Slow.

I Sample Range: set the current measurement range of Electronic Load. There are H, M and L for selection.



Voltage could be programmed in each range, low range, middle range and high range. At low voltage setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If CV mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

A/B State Switch

Static function has two setting level A or B. Use the [A/B] key to manually switch between two programmed load states. Slew rate determines the rate at which load level changes from one load level state to another.



• It is suggested to use a remote sense cable to measure the UUT ouptut voltage.

5.2.2.3 Constant Resistance Mode

In CR mode, the Load will sink a resistance in accordance with the programmed value regardless of the input voltage. To enter into CR mode, please press the [Main] key, select Load then select CR mode.



Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.
Slope↓: set the current fall slew rate data.

I Sample Range: set the current measurement range of Electronic Load. There are H, M and L for selection.



Resistance could be programmed in each range, low range, middle range and high range. At low resistance setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If CR mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

A/B State Switch

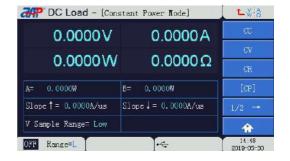
Static function has two setting level A or B. Use the [A/B] key to manually switch between two programmed load states. Slew rate determines the rate at which load level changes from one load level state to another.



• It is suggested to use a remote sense cable to measure the UUT output voltage.

5.2.2.4 Constant Power Mode

In CP mode, E-load will sink a power according to the programmed power. To enter into CP mode, please press the [Main] key, select Load then select CP mode.



Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.
Slope↓: set the current fall slew rate data.

V Sample Range: set the voltage measurement range of Electronic Load. There are H, M and L for selection.



Power could be programmed in each range, low range, middle range and high range. At low power setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of range. Both of them will cause shut down status of input. If CP mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

A/B State Switch

Static function has two setting level A or B. Use the [A/B] key to manually switch between two programmed load states. Slew rate determines the rate at which load level changes from one load level state to another.

5.2.2.5 Dynamic Current Mode

In DC mode, the load will sink a dynamic current according to the programmed current and dynamic timing regardless of the input voltage. To enter dynamic current mode, please press the [Main] key, select Load then select DC mode.





Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.
Slope↓: set the current fall slew rate data.

Repeat: set the number of time to repeat (0 means infinite loop).

Time A: set the loading time for A. **Time B:** set the loading time for B.



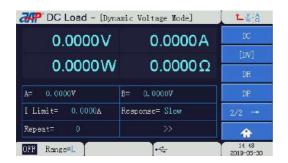
V Sample Range: Set the voltage measurement range of Electronic Load. There are H, M and L for slection.

Range (Low, Middle, High)

Current could be programmed in each range, low range, middle range and high range. At low current setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If DC mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

5.2.2.6 Dynamic Voltage Mode

In DV mode, E-load will sink current to control the voltage according to the programmed voltage and dynamic timing. DV mode has 3 types of response speeds: Fast, Normal and Slow. To enter into DV mode, please press the [Main] key, select Load then select DV mode.





Parameters:

A: set the loading value for A load. **B:** set the loading value for B load.

I Limit: set maximum current for the load.

Response: set the Electronic Load response speed to Fast, Normal or Slow.

Repeat: set the number of time to repeat (0 means infinite loop).

Time A: set the loading time for A. **Time B:** set the loading time for B.

 $\textbf{I Sample Range:} \ \textbf{Set the current measurement range of Electronic Load.} \ \ \textbf{There are H, M and}$

L for slection.



Voltage could be programmed in each range, low range, middle range and high range. At low voltage setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If DV mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

5.2.2.7 Dynamic Resistance Mode

In DR mode, the Load will sink a dynamic resistance according to the programmed resistance and dynamic timing by the input voltage. To enter into DR mode, please press the [Main] key, select Load then select DR mode.





Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.
Slope↓: set the current fall slew rate data.

Repeat: set the number of time to repeat (0 means infinite loop).

Time A: set the loading time for A.

Time B: set the loading time for B.

 $\textbf{I Sample Range:} \ \textbf{Set the current measurement range of Electronic Load.} \ \ \textbf{There are H, M and}$

L for slection.



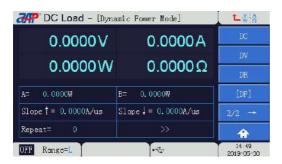
Resistance could be programmed in each range, low range, middle range and high range. At low resistance setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If DR mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.



• It is suggested to use a remote sense cable to measure the UUT output voltage.

5.2.2.8 Dynamic Power Mode

In DP mode, E-load will sink a dynamic power according to the programmed power and dynamic timing by the input voltage. To enter into DP mode, please press the [Main] key, select Load then select DP mode.





Parameters:

A: set the loading value for A load.

B: set the loading value for B load.

Slope↑: set the current rise slew rate data.

Slope↓: set the current fall slew rate data.

Repeat: set the number of time to repeat (0 means infinite loop).

Time A: set the loading time for A.

Time B: set the loading time for B.

V Sample Range: set the voltage measurement range of Electronic Load. There are H, M and L for selection.



Power could be programmed in each range, low range, middle range and high range. At low power setting, low range provides better resolution. If setting value is over maximum of low range, the user has to use middle range. If setting value is over maximum of middle range, the user has to use large range. To change range, please select Range on the screen to set. Change of mode will affect Load, so will change of the range. Both of them will cause shut down status of input. If DP mode of E-load is activated, new setting will directly change input at a rate determined by the slew rate setting.

5.2.3 Advanced

The following useful advanced functions are available in the advanced screen:

- Battery
- OCP/OPP
- Program
- CV-CC
- CV-CR
- CR-CC
- Auto
- LED





5.2.3.1 BATT (Battery Discharge Timer)

This series load has a timer and measurement functions which can perform accurate time setting and mesurement. This function allows the user to set the End Volt and Timeout during battery discharge testing and applications in similar.







Parameters:

Mode: including CC, CR and CP mode.

Set Value: set the load parameter.

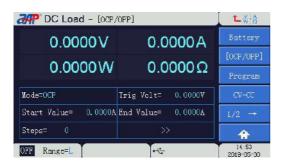
Slope: set the current rise slew rate data.
Slope: set the current fall slew rate data.

End Volt: set the cut-off voltage.
Timeout: set the timeout value.
End Wh: set the cut-off Wh.
End Ah: set the cut-off Ah.

V Sample Range: set the voltage measurement range of Electronic Load. There are H, M and

L for selection.

5.2.3.2 OCP/OPP





This series electronic load has over current protection (OCP) and over power protection (OPP) test function.

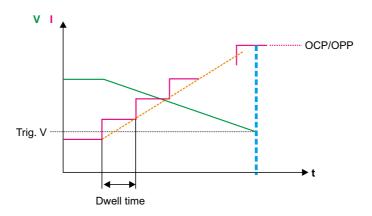
Which is for the load to test the UUT voltage whether has reached trigger voltage level and to judge if the protection is acting normally or not.

In OCP (OPP) test mode, the electronic load starts to load at the Start Value, and the current (power) increases step by step at regular interval. At the same time, check the load input voltage and judge whether it is higher than the Trig Volt. If higher, it indicates that OCP (OPP) does not occur. Repeat current stepping operation till the load operates to the End Value. If lower, it indicates that OCP (OPP) does occur.

Check whether the existing current (power) value is within SPEC High I (P) and SPEC Low I (P) range. If yes, display GO (Good), or NG (No Good).

SPEC High I/P: set the high level current / power. SPEC Low I/P: set the low level current / power.





Parameters Setting:

Mode: set OCP or OPP mode.

Trigger Volt: set the trigger voltage value.

Start Value: set the starting current or power value. **End Value:** set the end current or power value.

Steps: set the current or power change steps.

Time Of Step: set the dwell time.

SPEC High I: set the high level current. **SPEC Low I:** set the low level current.

V Sample Range: set the voltage measurement range of Electronic Load. There are H, M and

L for selection.

5.2.3.3 Program

In the program sequence function mode, the user can select the basic test of the electronic load as a program sequence and can link different program sequences for automatic execution.

Program sequences are very powerful. The electronic load consists of 10 sets of programs, including 300 sets of sequences. Users can use the program chain function to link groups of programs together to produce a variety of sequence combinations.







Program setting parameters:

Program No.: set the program number, 10 programs in total (1-10).

Steps: set the number of steps in a program sequence.

link: set the program chain. Program chain allows users to link programs to get more test sequences. Setting the program chain number to 0 indicates no program chain. The program chain function links itself for loop testing or links to other programs.

Repeat: set the number of times for the program chain to repeat. **Remain Steps:** display the remaining unset sequence number.

Save: save edits to program to memory when done.

Set Step: set the sequence.

Step No.: set the sequence number (1-300).

Trigger: set the sequence mode to Skip, Auto, Manual or External. **Skip:** skip the sequence, the load will not change the input state.

Auto: the load will run next sequence automatically when the Dwell time exceeds.

Manual: when press ENTER, the load will automatically proceed to the next sequence.

External: use external analog signal to control load input switch.

Mode: set operation mode, which includes CC, CV, CR, CP, Load off and Short mode.

Range: set the range.

Value A: set the load level.

Time: sets the sequence dwell time. The range is 0.1ms to 30s.

Enable Value B: enable this option if needed.



Slope: set the rising slew rate of current.

Slope↓: set the falling slew rate of current.

The electronic load allows the user to program the UUT specification for GO/NG verification in sequence. It will measure the UUT's performance for comparision when testing. The specification V, I and P can be set for the load by the user. The specification has two levels: LOW and HIGH.

SPEC High V: set high level voltage.

SPEC Low V: set the low level voltage.

SPEC High I: set the high level current.

SPEC Low I: set the low level current.

SPEC High P: set the high level power.

SPEC High P: set the high level power.

SPEC Low P: set the low level power.

SPEC Delay: set the Pass/Fail delay time when the load state changes.

Save Step: save the current step settings.

Next Step: switch to next step.

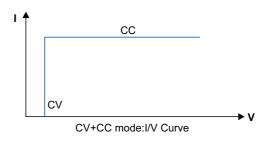
Exit: exit the edit page.

>>: next page.

5.2.3.4 CV-CC

In CV-CC mode, the electronic load will adjust the sink current to control the output voltage of current source by the programmed voltage.





Parameters:

V_SET: set the voltage value.I SET: set the current value.

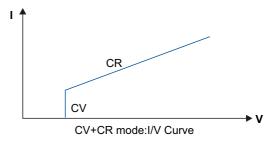
Response: set the electronic load response speed to Fast, Normal or Slow.



5.2.3.5 CV-CR

In CV-CR mode, program the constant voltage and constant resistance first and then start the UUT for output. When the UUT voltage starts to ouput, the load will sink in CV mode according to the programmed constant voltage. When the voltage rises to exceed the set constant resistance for sinking, it will switch to CR mode for sinking.





Parameters:

V_SET: set the voltage value.R SET: set the resistance value.

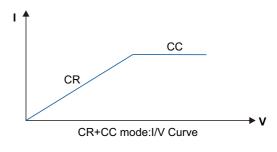


 This mode is suggested to be used in the UUT with CV ouptut. It is sutggested to use a remote sense cable to measure the UUT output voltage.

5.2.3.6 CR-CC

In CR-CC mode, program the constant resistance and constant current first and then start the UUT for output. When the UUT voltage starts to ouput, the load will sink in CR mode according to the programmed resistance. When the voltage rises to exceed the set constant current for sinking, it will switch to CC mode for sinking.







Parameters:

R_SET: set the resistance value.

I SET: set the current value.

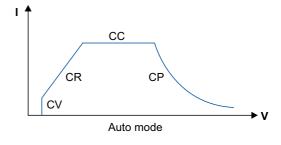


 This mode is suggested to be used in the UUT with CV ouptut. It is sutggested to use a remote sense cable to measure the UUT output voltage.

5.2.3.7 Auto

In Auto mode, program the constant voltage, constant resistance, constant current and constant power, and then start the UUT for ouput. When the UUT voltage starts to output, the load will sink according to the programmed constant voltage in CV mode. When the voltage rises, it will automatically switch to CR mode and to the CC mode at last for sinking. It will switch to CP mode for sinking if the UUT outputs high voltage abnormally.





Parameters:

V_SET: set the voltage value.R_SET: set the resistance value.I_SET: set the current value.

P SET: set the power value.



 This mode is suggested to be used in the UUT with CV ouptut. It is sutggested to use a remote sense cable to measure the UUT output voltage.



5.2.3.8 LED

LED V: working voltage of load LED.

LED I: output current of LED.

Parameter: includes Rd Default, Rd Percent,

Rd and Vf.

Rr: high frequency resistance.



5.2.4 Configure

The configure screen controls the following aspects of the load:

- Load Setup
- Protection
- Paral/Sync
- SPEC
- Digitizing
- Timing



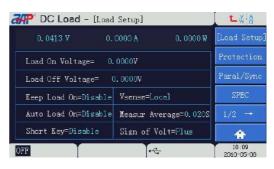
5.2.4.1 Load Setup

Load On Voltage: set the start loading voltage value.

The current will start loading when the electronic load is in ON state and the input voltage

reaches the start loading voltage value.

Load Off Voltage: set the unload voltage value. The electronic load will OFF the loading state when the input voltage is dropped to this unload voltage value. The deafult setting of this value is 0V.



37

Keep Load On: lock the start loading voltage.

Enable: means load will continue loading current when it reaches the start loading voltage level. **Disable:** means loading current will stop when the input voltage is lower than the start loading voltage level.





Caution!

- The electronic load can simulate the loading conditions. When the input voltage reaches the start loading voltage value, the electronic load will start or stop loading current. The load starts loading current when it is ON and the input voltage exceeds start loading voltage value. However it will stop loading when it is OFF or the input voltage is lower than the start loading voltage value. To avoid logic error, the unload voltage should be smaller than or equal to the start loading voltage value.
- If the start loading voltage value is set lower than the UUT minimum operating voltage, it
 could cause the UUT unable to turn on or to generate overshoot voltage or current when
 load is set too high. So it is necessary to consider if the UUT minimum operating voltage
 spec is met when setting the start loading voltage value.
- The unload value only can be used when the start loading voltage has been set. And the unload voltage setting must be lower than the start loading voltage value.

Vsense: select Local sense or Remote sense.

Auto Load On: set for auto loading when power on.

When Auto is on, the load will apply the loading parameters and mode set last time before turned off for loading when power on next time. The default setting is OFF.

Measur Average: set the average measurement time.

Short Key: set for short circuit.

The user need to set it first so that it can be controlled by the [Shift]+[Range] key on the front panel or remotely before using the short circuit function. The settings are described as below. **Hold mode:** press and hold the [Shift]+[Range] to function. The short state is cleared when released.

Toggle mode: press [Shift]+[Range] key to enter into short state and press the [Shift]+[Range] key again to clear the state.



- When operating in short circuit mode, the load simulates short circuit with the maximum rated current and power of the range.
- Enable the short mode will not affect the programmed settings, and the load input will return to the previous programmed value after the short mode is off.

Sign of Volt: set the positive and negative sign for the voltage.



5.2.4.2 Protection

OCP Check: enable or disable the OCP function.

OCP Point: over current protection level.

OCP Delay: set the OCP trip delay in secs.

OPP Check: enable or disable the OPP function.

OPP Point: over power protection level.

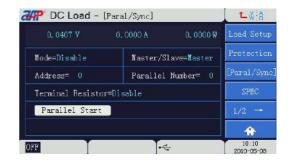
OPP Delay: set the OPP trip delay in secs.



If OCP or OPP is detected, please check and make sure that the current or power passing the UUT is within the settings of the load. If exceeds the range, please disconnect and remove the UUT. The alarm information on the display will be cleared and OCP or OPP will be disabled after pressing any key on the front panel.

5.2.4.3 Paral/Sync

The electronic loads can be configured in parallel or sync mode. Set the SLAVE load first and then MASTER load. The sink settings for the slave and master units can be set in different, but the LOAD ON/OFF will only can be controlled by the MASTER one.



Mode: config the loads work in Parallel or Sync mode.

Master/Slave: set it as slave unit or master unit.

Address: set the communication address.

Parallel Number: set the parallel number, which must be as much as practical.

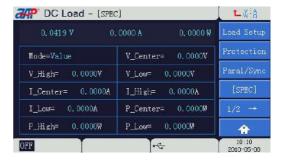
Terminal Resistor: set the terminal of the first and last unit to Enable and the rest to Disable in

this system.

Parallel Start: press this soft key to enable parallel setting.

5.2.4.4 SPEC

This function allows the user to program the spec of the voltage, current and power. Enable this function during testing and the testing result can be displayed simultaneously. GO will show if the SPEC is met and NG will appear if not.



39



Parameters:

Mode: set Value or Percent mode.

V_Center: the setting for input reference voltage value.

V_High: the parameter setting is voltage value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.

V_Low: the parameter setting is voltage value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.

I_Center: the setting for input reference current value.

I_High: the parameter setting is current value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.

I_Low: the parameter setting is current value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.

P_Center: the setting for input reference power value.

P_High: the parameter setting is power value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.

P_Low: the parameter setting is power value when the Mode is set to Value and the percentage range (0-100%) when the mode is set to Percent.



 The SPEC function can be enabled for GO/NG to detect the loading specification. The user needs to press the [Shift] key first and then the [SPEC] key.

5.2.4.5 Digitizing

Sampling Time: the sampling time for measured data.

Sampling Points: the total sampling point for measured data.

Trigger Source: the trigger conditions for data capturing. Which includes Load On, Load Off, Digital Port, Key, BUS.

Trigger Point: set the trigger point.

Digitizing Start: trigger the data capturing.





5.2.4.6 Timing

Mode: enable or disable the Timing mode.

TrigMode: set the trigger mode for starting measurement in Timing function, which includes Rise and Fall.

TrigVolt: set the voltage at the start of measurement in Timing function.

EndVolt: set the voltage at the end of measurement in Timing function.

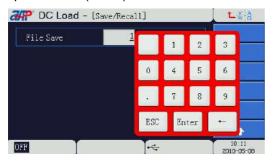
Timeout: set the measurement timeout in Timing function.



5.2.5 Save/Recall

This function is used to save and recall the commonly used parameters to or from the memory.

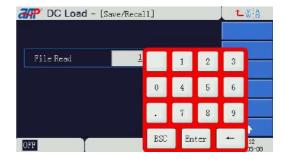
1. Press the Save soft key then enter the file name, to save the settings of all modes to a specified file (1 to 5).

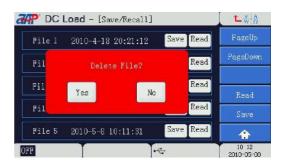


3. Select a file and press Yes soft key to delete the settings saved in this file.



2. Press the Read soft key to recall the settings from the specified file (1 to 5).

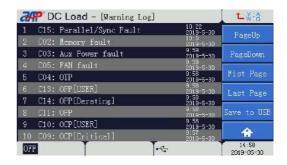






5.2.6 Warning Log

This menu provides a alarm history to the user which also can be saved to a USB drive.



5.2.7 System Setting

The system setting screen is used to configure the following resources of the unit:

- Settings
- GPIB
- Date
- Info.
- RS232/485
- Factory
- TTL/Analog
- Calibrate
- LAN
- Upgrade



5.2.7.1 Settings

Brightness: display brightness adjustment. **LCD Saver:** the display will enter power-down

mode after enable this option.

Keytone: the key beeps when pressed,

the default is ON.



5.2.7.2 Date

It is for user to set the date and time.





5.2.7.3 RS232/485

Communication parameters for RS232.

Baud Rate, including 9600, 19200, 38400, 57600 and 115200.

Parity, including None, Odd and Even.

Stop Bit, including 1 and 2.

Communication parameters for RS485.

Baud Rate, including 9600, 19200, 38400 and 57600 and 115200.

Parity, including None, Odd and Even.

Stop Bit, including 1 and 2.

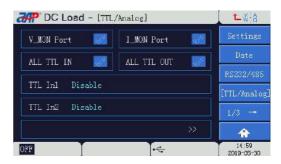
Address, from 1 to 254.

5.2.7.4 TTL/Analog

The port definitions for V-MON and I-MON.

The available options for TTL Out1, TTL Out2 and TTL Out3.

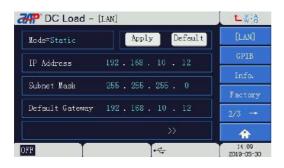
- Disable
- BattDischarge Finish(H)
- OCP/OPP Test PASS(H)
- Program Finish(H)
- SPEC Test PASS(H)
- OCP, OPP, OTP, OV, REV(H)
- BUS Control(H)



The available options for TTL In1 and TTL In2.

- Disable
- Load On(H), Load Off(L)
- Remote Inhibit(H)

5.2.7.5 LAN





Select LAN communication mode.

Parameters:

Mode: Static or Auto. To set DCHP mode (Auto) or use Static to assigned a fixed IP address.

IP Address: set the IP address for the unit, which range is 0~255.



Subnet Mask: 0~255.

Default Gateway: 1~254.

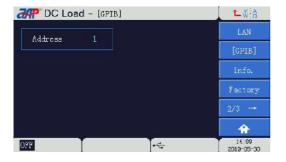
MAC Address: display the MAC address of the unit, which cannot be edited.

Apply: press this soft key to apply all the Ethernet settings.

Default: press this soft key all the network settings will restore to default.

5.2.7.6 GPIB

It sets the GPIB address.



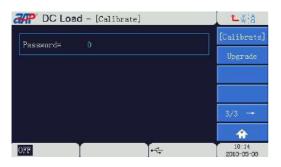
5.2.7.8 Factory

It returns to the factory default including all the settings after Yes option pressed.

Note: factory default will not clear the 10 files saved in Program menu, the Warning Log or files saved in Save/Recall menu.

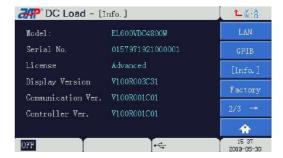
5.2.7.9 Calibrate

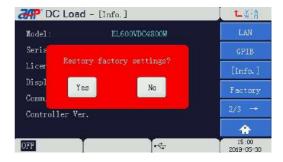
This menu is used for calibration, please contact APM technical support engineer if needed.



5.2.7.7 Info.

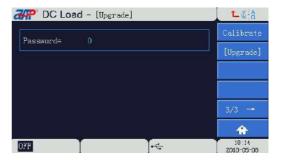
This information comprises Model, Serial No, License, Display Version, Communication Ver. and Controller Ver.





5.2.7.10 Upgrade

This screen is used to perform a firmware update, please contact APM technical engineer for support.



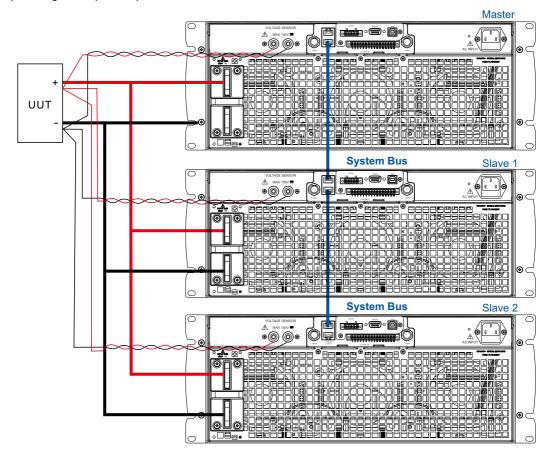


The series of electronic loads can be connected in parallel according to customer requirements.



- Set the Slave unit first and then the Master one.
- There can only be ONE Master unit in any Master/Slave configuration.
- Each Slave unit's number Must be unique or the master-slave mode cannot be set.

Operating example for parallel 3 units.





6.1 Parallel Procedure

The parallel connection of 3 units is as follows.

- 1. Wiring according to the above diagram.
- a. Connect System BUS cables.
- b. Connect UUT.
- 2. Configure the master-slave mode.
- a. Press the function key to enter into the Paral/Sync.
- b. Select "Parallel" and press [Enter] key to confirm the Parallel setting.
- Slave mode
- Master mode
- 3. Power on procedure in parallel state.

Turn on the SLAVE load first then the MASTER load. The MASTER unit will start to parallel automatically after it is turned on, and resume to the state before power off when the connection is done.

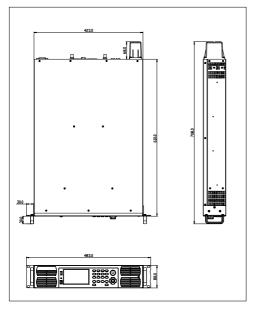
- 4. Set the Terminal Resistor of the first and last unit to Enable and the rest to Disable. Press the [Main] key, select configure submenu, then select Paral/Sync submenu, set the Terminal Resistor of the first and last unit to Enable and the rest to Disable.
- 5. Disable the parallel

If the user want to disable the parallel, turn off the unit, remove the load connection. Press the [Main] key, select configure submenu, then select Paral/Sync submenu, set the Mode to Disable and remove the system bus cable.

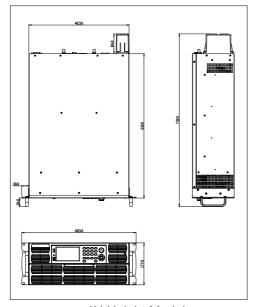


7 Installation

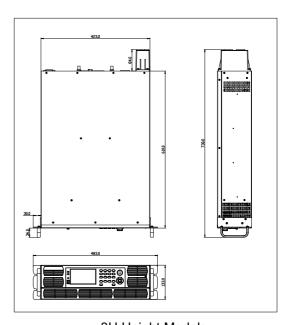
7.1 Overview and Dimensions



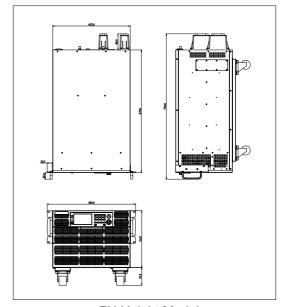
2U Height Models



4U Height Models



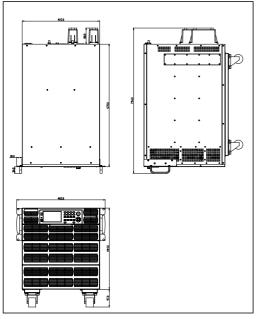
3U Height Models

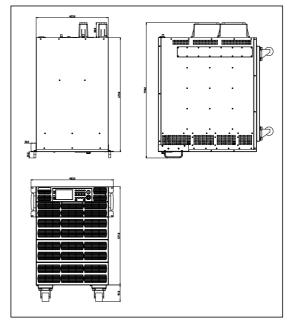


7U Height Models

47







10U Height Models

13U Height Models

7.2 AC Input connection



Before connecting the power cord, to prevent electric shock and damage to the instrument, please observe the following precautions.

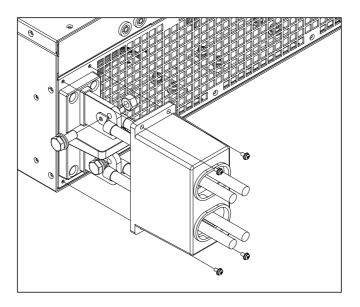
- Before connecting the power cord, make sure the power voltage matches the input voltage range of the instrument.
- Make sure the power switch is off before connecting the power cord.
- To prevent electric shock and fire, please use the power cord provided by APM.
- Be sure to connect the input power cord to the ac distribution box with protective grounding.
 Do not use the terminal board without protective grounding.
- To prevent electric shock, be sure to take protective grounding. Connect the power cord to a three-pronged socket with a protective earthing terminal.
- Do not use extended power cord without protective grounding wire, otherwise the protection function will fail.
- Use an AC outlet that matches the box's power cord and makes sure it is grounded. Do not
 use this instrument if appropriate AC power cord is not available.

AC power input level:

This series electronic load supports AC power input range: 100V~240V, 50Hz~60Hz.

7.3 Load Connection

Please make sure that the power is in OFF position before connecting. Loosen the protection cover and pass the cable end through the cable strain relief, tighten the terminal block screws assuring all wires are held tightly.





• The wires should be large enough to limit the voltage drop, and as short as possible.

Please refer to the table below to select cable size. Also consider temperature rating of the copper wires and voltage drop to the load:

	Minimum Conduct Sizes			Minimum Conduct Sizes	
Rated Current of equipment (A)	Nominal Cross -sectional Area (mm²)	AWG or kcmil	Rated Current of equipment (A)	Nominal Cross -sectional Area (mm²)	AWG or kcmil
13~16	1.5	14	125~160	50	0
16~25	2.5	12	160~190	70	000
25~32	4	10	190~230	95	0000
32~40	6	8	230~260	120	250 kcmil
40~63	10	6	260~300	150	300 kcmil
63~80	16	4	300~340	185	400 kcmil
80~100	25	2	340~400	240	500 kcmil
100~125	35	1	400~460	300	600 kcmil

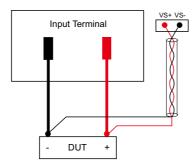


7.4 Remote Sensing Connections

Under CC, CV, CR or CP mode, if the load consumes large current, a large voltage drop will be detected in connection line between UUT and load terminal. To ensure measurement accuracy, a remote sense measurement is provided at load rear panel to compensate voltage drop lost in wires.

Remote operation: VS+ and VS- are remote input terminals. In order to avoid voltage drop caused by excessively long load input wire, remote test allows direct measurement on input terminal source to improve measurement accuracy.

Wiring according to the figure below. The test wires and Sense wires should be as short as possible, and sense wires should be twisted together.



External control

The IO port provides external input and output simulation control and TTL signal. The terminal is a 16P connector.

The external waveform input signal with input range from 0 to 10V to map to a 0 to full scale input range in CC, CV and CR mode. The load also has two independent BNC connectors to monitor the voltage (V-MON) and current (I-MON), a 0V to 10V output signal is mapping to a 0 to full scale input range.

The bandwidth of the input waveform is 20kHz, all the arbitrary waveform with this frequency is supported. When the programming signal frequency or amplitude exceeds the output capacity, it will be automatically limited.

In parallel mode, only the mater unit supports this external control mode.

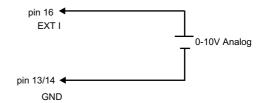
Logic signals of this interface include running state, short circuit state, sequence step state, trigger signal input and other state signals.

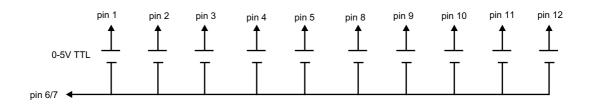


External analog input control voltage

pin 15 EXT V 0-10V Analog pin 13/14 GND

External analog input control current





1. Load ON/OFF state

Load ON/OFF state, TTL level.

ON: high level; OFF: low level;

2. Short ON output signal

Short ON output signal, TTL level.

SHORT: high level; NORMAL: low level;

3. TTL Out1 / 4. TTL Out2 / 5. TTL Out3

The output range is 0~5VDC, define each pin in the 5.2.7.4 TTL/Analog menu first before using.

NO.	Option	Description
0	Disable	Disabled
1	BattDischarge Finish(H)	Battery discharge test is completed.
2	OCP/OPP Test PASS(H)	OCP/OPP test is completed.
3	Program Finish(H)	Program test is completed.
4	SPEC Test PASS(H)	SPEC test result is NG.
5 OCP, OPP, OTP, OV, REV(H) OCP, OPP, OTP, OVP or reverse connection alarm		OCP, OPP, OTP, OVP or reverse connection alarm.
6	BUS Control(H)	System Bus control is enabled.

51



6. TTL digital ground

7. TTL digital ground

8. External trigger signal for Program function

TTL level, falling edge, and pulse width are no less than 50us.

9. External trigger signal for Digitizing function

TTL level, falling edge, and pulse width are no less than 50us.

10. TTL In1 / TTL In2

The input range is 0~5VDC, define each pin in the 5.2.7.4 TTL/Analog menu first before using.

NO.	Option	Description
0	Disable	Disabled
1	Load On(H), Load Off(L)	Load on (high level), load off (low level).
2	Remote Inhibit(H)	Inhibit (turn off) the load.

12. I/O control input

13. Analog ground

14. Analog ground

15. The external waveform input signal for voltage

(Professional version supported only)

The external waveform input signal with input range from 0 to 10V.

16. The external waveform input signal for current.

(Professional version supported only)

The external waveform input signal with input range from 0 to 10V.

8 Troubleshooting

Problem	Troubleshooting and solutions
Inner Communication fault	Ask your agent for help.
Memory fault	Ask your agent for help.
Aux Power fault	Ask your agent for help.
Volt Reverse Fault	Please check and make sure the polarity is correct.
ОТР	Please check and make sure the load is installed at well-ventilated and rational-sized place. If the unit still cannot work after checking please ask your agent for help.
FAN fault	Please check and make sure the vent hole is always unblocked. If the unit still cannot work after checking please ask your agent for help.
OV	Please check whether voltage of the power supply is within load rated voltage, or it will bring damage to the load.
OV[Critical]	Please check whether voltage of the power supply is within load rated voltage, or it will bring damage to the load.
OCP	If working in CP mode, clear the failure and check the configuration. Otherwise ask your agent for help.
OCP[Critical]	If working in CP mode, clear the failure and check the configuration. Otherwise ask your agent for help.
OCP[USER]	Please check if customized OCP is necessary and resonable. If not, please disable this setting.
OPP	Please check if customized OPP is necessary and resonable. If not, please disable this setting. Otherwise ask your agent for help.
OPP[Critical]	Please check whether the input voltage, setting current and setting range is reasonable. Otherwise ask your agent for help.
OPP[USER]	Please check if customized OCP is necessary and resonable. If not, please disable this setting.
OPP[Derating]	Please check the working environment temperature, and please see the derating curve for power drop.
Parallel/Sync Fault	Please check and make sure that the terminal resistor has been enabled, and the address settings between slave units and master one are all correct. Otherwise ask your agent for help.
Remote Vsense Fault	Please check if the load is under remote sense input mode.
V-MON/I-MON Fault	Please check and make sure that the configuration on the panel is correct.

9 R

Recycling and Disposal

Do not discard this device and its accessories as solid waste. Please contact your local government agencies to find out how to properly recycle the product properly.

10 Contact Us

If you have any questions about the High Power DC Load, please contact us. We will be happy to answer any of your questions. Below are our contact details:

APM Technologies

Add: #7, Link Information Industry Park, Shuilianshan Road, Nancheng, Dongguan,

Guangdong, China

Land line: +86-769 22028588 Fax: +86-769 22026771 Website: en.apmtech.cn

E-mail: overseas@apmtech.cn

Appendix A Specifications

MODEL		EL200VDC1200W				
	Voltage	0~200V				
Datad	Current	0~130A				
Rated	Power	0~1200W				
	Min. Operating Voltage	0.18V@13A	0.9V@65A	1.8V@130A		
		S	Static Mode			
Constant	Range	0~13A	0~65A	0~130A		
Current	Resolution	0.1mA	0.5mA	2mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~120W	0~600W	0~1200W		
Power	Resolution	10mW	50mW	100mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	30mΩ~300Ω(16V)	120mΩ~1200Ω(80V)	3000mΩ~6000Ω(200V)		
Resistance	Resolution	30mΩ(16V)	120mΩ(80V)	3000mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
		D	ynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
CCD/CRD	Slew Rate(Pro.)	0.1mA/μs~1.3A/μs	0.5mA/μs~4.55A/μs	2mA/µs~9.1A/µs		
CODICIO	Slew Rate(Adv.)	0.1mA/μs~0.13A/μs	0.5mA/μs~0.65A/μs	2mA/µs~1.3A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.1mA/μs	0.5mA/μs	2mA/µs		
	Accuracy	5%±10us				
			easurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	1mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~13A	0~65A	0~130A		
Current	Resolution	0.1mA	0.5mA	2mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~120W	0~600W	0~1200W		
Power	Resolution	10mW	50mW	100mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	equency	500kHz				
C) (D			Protection			
OVP		17.6V	88V	220V		
OCP		13.26A	66.3A	132.6A		
OPP		123.6W	618W	1236W		
Over Temperature		70 7590				
		70-75°C				
Overvoltage S	Safety Value	110%VF.S.				
Overvoltage S Reverse Alarr	Safety Value	110%VF.S. Yes				
Overvoltage S	Safety Value	110%VF.S. Yes Yes	echanical			
Overvoltage S Reverse Alam Alarm Tone	Safety Value m	110%VF.S. Yes Yes	echanical			
Overvoltage S Reverse Alarm Alarm Tone Dimensions(V	Safety Value m //www.mxhxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm	echanical			
Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim	Safety Value m	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm	echanical			
Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight	MxHxD) ensions(WxHxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg	echanical			
Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim	MxHxD) ensions(WxHxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg				
Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MxHxD) ensions(WxHxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg	echanical AC Input			
Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage	MxHxD) ensions(WxHxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg				
Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MxHxD) ensions(WxHxD)	110%VF.S. Yes Yes M 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg				



MODEL	Voltage	EL200VDC1800W 0~200V			
	Current	0~200V 0~190A			
Rated	Power	0~190A 0~1800W			
			0.01/2054	4.00/@4004	
	Min. Operating Voltage	0.18V@19A	0.9V@95A Static Mode	1.8V@190A	
	Range	0~19A	0~95A	0~190A	
Constant Current	Resolution	0~19A 0.1mA	0.5mA	0~190A 2mA	
Mode	Accuracy	0.05%+0.05%F.S.	0.5IIIA	ZIIIA	
	Range	0~16V	0~80V	0~200V	
Constant Voltage	Resolution	0.1mV	0.5mV	2mV	
Mode	Accuracy	0.025%+0.025%F.S.	U.SIIIV	ZIIIV	
	Range	0~180W	0~900W	0~1800W	
Constant Power	Resolution	10mW	50mW	100mW	
Mode	Accuracy	0.2%+0.2%F.S.	Somv	TOOTHIV	
	Range	0.2 %+0.2 %F.S. 20mΩ~200Ω(16V)	80mΩ~800Ω(80V)	2000mΩ~4000Ω(200V)	
Constant Resistance	Resolution	20mΩ(16V)	80mΩ(80V)	2000mΩ(200V)	
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	0011122(00 V)	200011132(2000)	
	, isouraby	VIII/136t (0.270)+0.270 IF.3.	Dynamic Mode		
	T1&T2(Pro.)	0.02ms~300s	- J. Marino Mode		
	T1&T2(PI0.)	0.02ms~300s 0.05ms~300s			
	Resolution	1µs			
	Accuracy	1µs+100ppm			
	Slew Rate(Pro.)	0.1mA/µs~1.9A/µs	0.5mA/µs~6.65A/µs	2mA/µs~13.3A/µs	
CCD/CRD	Slew Rate(Adv.)	0.1mA/µs~0.19A/µs	0.5mA/µs~0.95A/µs	2mA/µs~1.9A/µs	
	Min. Rise Time(Pro.)	10μs(Typical)	0.01111 1 4 5 0.007 1 4 5	Σπινμό 1.3/νμό	
	Min. Rise Time(Adv.)	50µs(Typical)			
	Resolution	0.1mA/µs	0.5mA/µs	2mA/µs	
	Accuracy	5%±10us	0.0110 0 40	2111 0 μ3	
_	Accuracy	370±1005	Measurement		
	Range	0~16V	0~80V	0~200V	
Voltage	Resolution	0.1mV	0.5mV	2mV	
voltage	Accuracy	0.015%+0.015%F.S.	0.51114	ZIIIV	
	Range	0~19A	0~95A	0~190A	
Current	Resolution	0.1mA	0.5mA	2mA	
Current	Accuracy	0.04%+0.04%F.S.	0.5IIIA	21101	
_	Range	0~180W	0~900W	0~1800W	
Power	Resolution	10mW	50mW	100mW	
1 OWEI		0.1%+0.1%F.S.	JOHIVV	10011144	
Sampling Fre	Accuracy	500kHz			
Sampling i le	quericy	300KHZ	Protection		
OVP		17.6V	88V	220V	
OCP		19.38A	96.9A	193.8A	
OPP		185.4W	927W	1854W	
Over Tempera	ature	70-75°C	02111	100411	
Overvoltage S		110%VF.S.			
Reverse Alarr		Yes			
Alarm Tone		Yes			
			Mechanical		
Dimensions(V	VxHxD)	423.0x88.0x610.0mm			
	ensions(WxHxD)	665.0x333.0x918.0mm			
Unit Weight		22kg			
Shipping Wei	aht	31kg			
		9	AC Input		
Voltage		100~240Vac			
Frequency		50~60Hz			
Power		150VA			

tage rrent wer n. Operating Voltage nge solution curacy nge solution curacy nge solution curacy nge solution curacy solution curacy nge solution curacy solution curacy solution curacy solution curacy at 2(Pro.) & T2(Adv.) solution curacy we Rate(Pro.) we Rate(Pro.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution curacy	0-26A 0.5mA 0.05%+0.05%F.S. 0-16V 0.1mV 0.025%+0.025%F.S. 0-240W 10mW 0.2%+0.2%F.S. 15mΩ-150Ω(16V) Vin/Rset*(0.2%)+0.2% IF.S.	0.9V@130A Static Mode 0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Oynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	1.8V@260A 0~260A 5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs 5mA/μs~2.6A/μs
rrent wer n. Operating Voltage nge solution curacy nge solution curacy nge solution curacy nge solution curacy solution curacy solution curacy w RT2(Pro.) & RT2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	0~260A 0~2400W 0.18V@26A 0~26A 0.5mA 0.05%+0.05%F.S. 0~16V 0.1mV 0.025%+0.025%F.S. 15mΩ-150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 10μs(Typical) 50μs(Typical)	Static Mode 0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~260A 5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
wer n. Operating Voltage Inge solution curacy Inge solution Ing	0-2400W 0.18V@26A 0-26A 0.5mA 0.05%+0.05%F.S. 0-16V 0.1mV 0.025%+0.025%F.S. 0-240W 10mW 0.2%+0.2%F.S. 15mΩ-150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	Static Mode 0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~260A 5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
n. Operating Voltage Inge Inge Inge Inge Inge Inge Inge I	0-26A 0-5mA 0.05%+0.05%F.S. 0~16V 0.1mV 0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	Static Mode 0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~260A 5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
nge solution curacy solution curacy solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0~26A 0.5mA 0.05%+0.05%F.S. 0~16V 0.1mV 0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical)	Static Mode 0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~260A 5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
solution curacy inge solution curacy inge solution curacy inge solution curacy inge solution curacy solution curacy solution curacy wRate(Pro.) w Rate(Adv.) in. Rise Time(Adv.) solution	0-26A 0.5mA 0.05%+0.05%F.S. 0-16V 0.1mV 0.025%+0.025%F.S. 0-240/W 10mW 0.2%+0.2%F.S. 15mΩ-150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms-300s 0.05ms-300s 1μs 1μs+100ppm 0.5mA/μs-2.6A/μs 0.5mA/μs-0.26A/μs 10μs(Typical) 50μs(Typical)	0~130A 2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
solution curacy inge solution curacy inge solution curacy inge solution curacy inge solution curacy solution curacy solution curacy wRate(Pro.) w Rate(Adv.) in. Rise Time(Adv.) solution	0.5mA 0.05%+0.05%F.S. 0~16V 0.1mV 0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~2.6A/μs 10μs(Typical) 50μs(Typical)	2mA 0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	5mA 0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
curacy nge solution curacy nge solution curacy nge solution curacy solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	0.05%+0.05%F.S. 0~16V 0.1mV 0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mΔ/μs~2.6A/μs 0.5mΔ/μs~0.26A/μs 10μs(Typical)	0~80V 0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~200V 2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
solution curacy nge solution curacy nge solution curacy nge solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	0-16V 0.1mV 0.025%+0.025%F.S. 0-240W 10mW 0.2%+0.2%F.S. 15mΩ-150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms-300s 0.05ms-300s 1μs 1μs+100ppm 0.5mA/μs-2.6A/μs 0.5mA/μs-0.26A/μs 10μs(Typical)	0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs
solution curacy inge solution curacy inge solution curacy solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) in. Rise Time(Adv.) solution	0.1mV 0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	0.5mV 0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	2mV 0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs
solution curacy nge solution curacy nge solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Pro.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.025%+0.025%F.S. 0~240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	0~1200W 50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	0~2400W 100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V)
solution curacy nge solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	0-240W 10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical)	50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs
solution curacy nge solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	10mW 0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	50mW 60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	100mW 1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs
solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.2%+0.2%F.S. 15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	60mΩ~600Ω(80V) 60mΩ(80V) Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	1500mΩ~3000Ω(200V) 1500mΩ(200V) 5mA/μs~18.2A/μs
solution curacy &T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) h. Rise Time(Pro.) h. Rise Time(Adv.) solution	15mΩ~150Ω(16V) 15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	09namic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	1500mΩ(200V) 5mA/μs~18.2A/μs
&T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Adv.) solution	15mΩ(16V) Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1μs 1μs+100ppm 0.5mA/μs~2.6A/μs 0.5mA/μs~2.6A/μs 10μs(Typical) 50μs(Typical)	09mamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	1500mΩ(200V) 5mA/μs~18.2A/μs
&T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) h. Rise Time(Pro.) h. Rise Time(Adv.) solution	Vin/Rset*(0.2%)+0.2% IF.S. 0.02ms~300s 0.05ms~300s 1µs 1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	Dynamic Mode 2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	5mA/μs~18.2A/μs
&T2(Pro.) &T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.02ms~300s 0.05ms~300s 1µs 1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	
&T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.02ms~300s 0.05ms~300s 1µs 1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	2mA/μs~9.1A/μs 2mA/μs~1.3A/μs	
&T2(Adv.) solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.05ms~300s 1µs 1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	2mA/μs~1.3A/μs	
solution curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	1µs 1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	2mA/μs~1.3A/μs	
curacy w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	1µs+100ppm 0.5mA/µs~2.6A/µs 0.5mA/µs~0.26A/µs 10µs(Typical) 50µs(Typical)	2mA/μs~1.3A/μs	
w Rate(Pro.) w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.5mA/μs~2.6A/μs 0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	2mA/μs~1.3A/μs	
w Rate(Adv.) n. Rise Time(Pro.) n. Rise Time(Adv.) solution	0.5mA/μs~0.26A/μs 10μs(Typical) 50μs(Typical)	2mA/μs~1.3A/μs	
n. Rise Time(Pro.) n. Rise Time(Adv.) solution	10μs(Typical) 50μs(Typical)		5mA/μs~2.6A/μs
n. Rise Time(Adv.) solution	50μs(Typical)		
solution			
	0.5mA/μs		
curacy		2mA/µs	5mA/µs
•	5%±10us		
	1	<i>l</i> leasurement	
nge	0~16V	0~80V	0~200V
solution	0.1mV	0.5mV	2mV
curacy	0.015%+0.015%F.S.		
nge	0~26A	0~130A	0~260A
solution	0.5mA	2mA	5mA
curacy			
		0~1200W	0~2400W
_			100mW
			100
У	JOOKI IZ	Protection	
	17.6\/		220V
			265.2A 2472W
		123677	247200
/ Value			
value	.,		
		Mechanical	
D)		nechanical	
IIS(AAYUXD)			
	-		
	ззкд	AC Innut	
	100-240\/20	AC input	
CCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	uracy ge olution uracy ge olution uracy y	uracy 0.015%+0.015%F.S. ge 0~26A olution 0.5mA uracy 0.04%+0.04%F.S. ge 0~240W olution 10mW uracy 0.1%+0.1%F.S. y 500kHz 17.6V 26.52A 247.2W 70-75°C Value 110%VF.S. Yes Yes Yes Yes 10) 423.0x88.0x610.0mm ss(WxHxD) 665.0x333.0x918.0mm 24kg 33kg 100~240Vac 50~60Hz 180VA	Uracy 0.015%+0.015%F.S. ge 0~26A 0~130A plution 0.5mA 2mA uracy 0.04%+0.04%F.S. ge 0~240W 0~1200W plution 10mW 50mW uracy 0.1%+0.1%F.S. y 500kHz Protection 17.6V 88V 26.52A 132.6A 247.2W 1236W 70-75°C Value 110%VF.S. Yes Yes Wechanical 1) 423.0x88.0x610.0mm 24kg 33kg AC Input 100~240Vac 50~60Hz



MODEL		EL200VDC3000W				
	Voltage	0~200V				
D	Current	0~320A				
Rated	Power	0~3000W				
	Min. Operating Voltage	0.18V@32A	0.9V@160A	1.8V@280A		
	, , ,		Static Mode			
0	Range	0~32A	0~160A	0~320A		
Constant Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.	2	OHBY		
	Range	0~16V	0~80V	0~200V		
Constant	Resolution	0.1mV	0.5mV	2mV		
Voltage Mode	Accuracy		v.mv.	Zmv		
	ŕ	0.025%+0.025%F.S. 0~300W	0~1500W	0~3000W		
Constant	Range	10mW	50mW	100mW		
Power Mode	Resolution		SOITIV	TOOTHVV		
Wode	Accuracy	0.2%+0.2%F.S.	12 2 1222(22)			
Constant	Range	10mΩ~100Ω(16V)	40mΩ~400Ω(80V)	1000mΩ~2000Ω(200V)		
Resistance Mode	Resolution	10mΩ(16V)	40mΩ(80V)	1000mΩ(200V)		
Iviode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
CCD/CRD	Slew Rate(Pro.)	0.5mA/μs~3.2A/μs	2mA/μs~11.2A/μs	5mA/μs~22.4A/μs		
CCD/CKD	Slew Rate(Adv.)	0.5mA/μs~0.32A/μs	2mA/μs~1.6A/μs	5mA/μs~3.2A/μs		
	Min. Rise Time(Pro.)	10μs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~32A	0~160A	0~320A		
Current	Resolution	0.5mA	2mA	5mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~300W	0~1500W	0~3000W		
Power	Resolution	10mW	50mW	100mW		
1 01101	Accuracy	0.1%+0.1%F.S.	COMITY	10011111		
Sampling Fre		500kHz				
Sampling 1 re	quency	JOORITZ	Protection			
OVP		17.6\/	88V	220V		
OCP		17.6V 32.64A				
			163.2A	326.4A		
OPP	oturo	309W	1545W	3090W		
Over Tempera		70-75°C				
Overvoltage S	•	110%VF.S.				
Reverse Alarr	1	Yes				
Alarm Tone		Yes	Manhaniani			
Dimen : 0	Mallan)		Mechanical			
Dimensions(V		423.0x88.0x610.0mm				
	ensions(WxHxD)	665.0x333.0x918.0mm				
Unit Weight		26kg				
Shipping Wei	ght	35kg				
			AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
		180VA				
Power		100171				

MODEL		EL200VDC3400W		
	Voltage	0~200V		
	Current	0~370A		
Rated	Power	0~3400W		
	Min. Operating Voltage	0.18V@37A	0.9V@185A	1.8V@370A
	wiiii. Operating voltage	0.16V@37A	Static Mode	1.6V@3/0A
	Pango	0~37A	0~185A	0~370A
Constant	Range			
Current Mode	Resolution	0.5mA	2mA	5mA
	Accuracy	0.05%+0.05%F.S.	2.001	0.0001
Constant	Range	0~16V	0~80V	0~200V
Voltage Mode	Resolution	0.1mV	0.5mV	2mV
Mode	Accuracy	0.025%+0.025%F.S.	0.470014	0.040014
Constant	Range	0~340W	0~1700W	0~3400W
Power	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	10mΩ~100Ω(16V)	40mΩ~400Ω(80V)	1000mΩ~2000Ω(200V)
Resistance	Resolution	10mΩ(16V)	40mΩ(80V)	1000mΩ(200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
			Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
000/000	Slew Rate(Pro.)	0.5mA/µs~3.7A/µs	2mA/µs~12.95A/µs	5mA/µs~25.9A/µs
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.37A/μs	2mA/µs~1.85A/µs	5mA/μs~3.7A/μs
	Min. Rise Time(Pro.)	10µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	0.5mA/µs	2mA/µs	5mA/µs
	Accuracy	5%±10us		
			Measurement	
	Range	0~16V	0~80V	0~200V
Voltage	Resolution	0.1mV	0.5mV	2mAV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~37A	0~185A	0~370A
Current	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		
	Range	0~340W	0~1700W	0~3400W
Power	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.	55	
Sampling Free		500kHz		
Camping 110	quonoy	00011112	Protection	
OVP		17.6V	88V	220V
		37.74A	188.7A	377.4A
OCP		350.2W	1751W	3502W
		330.200	1/5100	350244
OPP	atura	70-75℃		
OPP Over Tempera		70-75°C		
OPP Over Tempera Overvoltage S	Safety Value	110%VF.S.		
OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	110%VF.S. Yes		
OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	110%VF.S. Yes Yes	Mechanical	
OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone	Safety Value m	110%VF.S. Yes Yes	Mechanical	
OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V	Safety Value m WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm	Mechanical	
OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dime	Safety Value m	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	Mechanical	
OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dime Unit Weight	Safety Value m WxHxD) ensions(WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg	Mechanical	
OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dime Unit Weight	Safety Value m WxHxD) ensions(WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm		
OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight	Safety Value m WxHxD) ensions(WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg	Mechanical AC Input	
OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Safety Value m WxHxD) ensions(WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg		
OPP Over Tempers Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight	Safety Value m WxHxD) ensions(WxHxD)	110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg		



MODEL		EL200VDC4400W				
	Voltage	0~200V				
D-4-4	Current	0~480A				
Rated	Power	0~4400W				
	Min. Operating Voltage	0.18V@48A	0.9V@240A	1.8V@480A		
	, ,		Static Mode			
0	Range	0~48A	0~240A	0~480A		
Constant Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.	21101	Only		
	Range	0~16V	0~80V	0~200V		
Constant	Resolution	0.1mV	0.5mV	2mV		
Voltage Mode	Accuracy		vmc.u	ZMV		
	-	0.025%+0.025%F.S. 0~440W	0~2200W	0~4400W		
Constant	Range	10mW	50mW	100mW		
Power Mode	Resolution		SUIIIV	TOOTHVV		
Wode	Accuracy	0.2%+0.2%F.S.	22 2 222 (22) (2			
Constant	Range	7.5mΩ~75Ω(16V)	30mΩ~300Ω(80V)	750mΩ~1500Ω(200V)		
Resistance	Resolution	7.5mΩ(16V)	30mΩ(80V)	750mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
CCD/CRD	Slew Rate(Pro.)	0.5mA/μs~4.8A/μs	2mA/μs~16.8A/μs	5mA/µs~33.6A/µs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.48A/μs	2mA/µs~2.4A/µs	5mA/μs~4.8A/μs		
	Min. Rise Time(Pro.)	10μs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us				
			Measurement			
_	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mAV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~48A	0~240A	0~480A		
Current	Resolution	0.5mA	2mA	5mA		
Current	Accuracy	0.04%+0.04%F.S.	21101	Citat		
		0~440W	0~2200W	0~4400W		
Power	Range Resolution	10mW	50mW	100mW		
Power		0.1%+0.1%F.S.	SUIIIV	TOOTHW		
0	Accuracy					
Sampling Fre	quency	500kHz	2 / #			
0) (D		47.01	Protection	2201/		
OVP		17.6V	88V	220V		
OCP		48.96A	244.8A	489.6A		
OPP _		453.2W	2266W	4532W		
Over Tempera		70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V		423.0x133.0x610.0mm				
_	ensions(WxHxD)	665.0x348.0x918.0mm				
Unit Weight		28.5kg				
Shipping Wei	ght	37.3kg				
			AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
Power		200VA				
Power						

MODEL		EL200VDC5600W		
	Voltage	0~200V		
	Current	0~610A		
Rated	Power	0~5600W		
	Min. Operating Voltage	0.18V@61A	0.9V@305A	1.8V@610A
	mini operating ventage	0.101@01/1	Static Mode	1.51@010/1
o	Range	0~61A	0~305A	0~610A
Constant Current	Resolution	0.5mA	2mA	5mA
Mode	Accuracy	0.05%+0.05%F.S.	21101	CHIP
	Range	0~16V	0~80V	0~200V
Constant Voltage	Resolution	0.1mV	0.5mV	2mV
Mode	Accuracy	0.025%+0.025%F.S.	0.3111	ZIIIV
	Range	0~560W	0~2800W	0~5600W
Constant Power	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.	3011144	10011144
	Range	7.5mΩ~75Ω(16V)	30mΩ~300Ω(80V)	750mΩ~1500Ω(200V)
Constant Resistance	Resolution	7.5mΩ(16V)	30mΩ(80V)	750mΩ2-1300Ω(200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	3011122(00 V)	7301112(200V)
	Accuracy	VIII/KSet (0.2%)+0.2% IF.S.	Dynamic Mode	
	T18 T2/Dro)	0.02ms~300s	- bynamic mode	
	T1&T2(Pro.) T1&T2(Adv.)	0.02ms~300s 0.05ms~300s		
	Resolution	0.05ms~500s 1μs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	0.5mA/μs~6.1A/μs	2mA/µs~21.35A/µs	5mA/μs~42.7A/μs
CCD/CRD	Slew Rate(Pro.) Slew Rate(Adv.)	0.5mA/μs~0.61A/μs	2mA/µs~21.35A/µs 2mA/µs~3.05A/µs	5mA/μs~42.7A/μs 5mA/μs~6.1A/μs
	Min. Rise Time(Pro.)		2ΠΑΨμ5-3.03ΑΨμ5	οπιΑνμς∼ο. τΑνμς
		10µs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical) 0.5mA/μs	2mA/µs	5mA/µs
	Resolution	·	2πενμο	Зпичръ
	Accuracy	5%±10us	Management	
	Donge	0~16V	Measurement 0~80V	0~200V
\/-!+	Range	0.1mV		
Voltage	Resolution		0.5mV	2mV
	Accuracy	0.015%+0.015%F.S.	0.2054	0~610A
	Range	0~61A	0~305A	
Current	Resolution	0.5mA	2mA	5mA
	Accuracy	0.04%+0.04%F.S.		0.500004
	Range	0~560W	0~2800W	0~5600W
Power	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre	quency	500kHz		
0)/D		47.0)/	Protection	9991
OVP		17.6V	88V	220V
OCP		62.22A	311.1A	622.2A
OPP		576.8W	2884W	5768W
Over Tempera		70-75°C		
Overvoltage S		110%VF.S.		
Reverse Alarr	n	Yes		
Alarm Tone		Yes		
Dimen i di	Malla D)	400.0.400.0.010.0	Mechanical	
Dimensions(V		423.0x133.0x610.0mm		
-	ensions(WxHxD)	665.0x348.0x918.0mm		
Unit Weight		32.5kg		
Shipping Wei	ght	41.3kg	401	
			AC Input	
Voltage		100~240Vac		
Frequency		50~60Hz		
Power		200VA		
Fuse		2.5A		



MODEL		EL200VDC6600W				
	Voltage	0~200V				
Rated	Current	0~720A				
Rateu	Power	0~6600W				
	Min. Operating Voltage	0.18V@72A	0.9V@360A	1.8V@720A		
			Static Mode			
Constant	Range	0~72A	0~360A	0~720A		
Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.	2	Citat		
^	Range	0~16V	0~80V	0~200V		
Constant	Resolution	0.1mV	0.5mV	2mV		
Voltage Mode	Accuracy		0.51117	ZIIIV		
	,	0.025%+0.025%F.S. 0~660W	0~3300W	0~6600W		
Constant	Range	10mW	50mW	100mW		
Power Mode	Resolution		SOITIV	TOOTHVV		
Wiode	Accuracy	0.2%+0.2%F.S.	22 2 2222/2017			
Constant	Range	5mΩ~50Ω(16V)	20mΩ~200Ω(80V)	500mΩ~1000Ω(200V)		
Resistance	Resolution	5mΩ(16V)	20mΩ(80V)	500mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
CCD/CRD	Slew Rate(Pro.)	0.5mA/μs~7.2A/μs	2mA/μs~25.2A/μs	5mA/µs~50.4A/µs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.72A/μs	2mA/μs~3.6A/μs	5mA/µs~7.2A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
vollago	Accuracy	0.015%+0.015%F.S.	Cisiiit			
	Range	0~72A	0~360A	0~720A		
Current	Resolution	0.5mA	2mA	5mA		
Current	Accuracy	0.04%+0.04%F.S.	ZIIIA	JIIIA		
		0~660W	0~3300W	0~6600W		
_	Range	10mW	50mW	100mW		
Power	Resolution		SOITIVY	TOOTHVV		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
			Protection			
OVP		17.6V	88V	220V		
OCP		73.44A	367.2A	734.4A		
OPP		679.8W	3399W	6798W		
Over Tempera		70-75°C				
Overvoltage S	Safety Value	110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	VxHxD)	423.0x177.0x610.0mm				
Package Dime	ensions(WxHxD)	665.0x392.0x918.0mm				
Unit Weight		38kg				
Shipping Wei	ght	47kg				
			AC Input			
Voltage		100~240Vac				
Frequency						
Frequency Power		50~60Hz 250VA				

MODEL		EL200VDC8800W				
WODEL	Voltage	0~200V				
	Current	0~960A				
Rated	Power	0~8800W				
	Min. Operating Voltage		0.9V@480A	1.81/80504		
	wiiii. Operating voltage	0.18V@96A	atic Mode	1.8V@960A		
	Range	0~96A	0~480A	0~960A		
Constant Current	Resolution	1mA	5mA	10mA		
Mode	Accuracy	0.05%+0.05%F.S.	OHD C	1011111		
0 1 1	Range	0~16V	0~80V	0~200V		
Constant Voltage	Resolution	0.1mV	0.5mV	2mV		
Mode	Accuracy	0.025%+0.025%F.S.	0.5111	2		
Constant	Range	0~880W	0~4400W	0~8800W		
Power	Resolution	20mW	100mW	200mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	4mΩ~40Ω(16V)	15mΩ~150Ω(80V)	375mΩ~750Ω(200V)		
Resistance	Resolution	4mΩ(16V)	15mΩ(80V)	375mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		, ,		
			namic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
	Slew Rate(Pro.)	0.5mA/μs~9.6A/μs	2mA/µs~28.8A/µs	5mA/μs~57.6A/μs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.96A/μs	2mA/μs~4.8A/μs	5mA/μs~9.6A/μs		
	Min. Rise Time(Pro.)	10µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	1mA/μs	5mA/µs	10mA/μs		
	Accuracy	5%±10us				
		Me	asurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~96A	0~480A	0~960A		
Current	•		5mA	10mA		
Current	Resolution	1mA	OTTE C			
Current	_	1mA 0.04%+0.04%F.S.	O.W.			
Current	Resolution		0~4400W	0~8800W		
Current	Resolution Accuracy	0.04%+0.04%F.S.		0~8800W 200mW		
	Resolution Accuracy Range	0.04%+0.04%F.S. 0~880W	0~4400W			
	Resolution Accuracy Range Resolution Accuracy	0.04%+0.04%F.S. 0~880W 20mW	0~4400W			
Power	Resolution Accuracy Range Resolution Accuracy	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz	0~4400W			
Power	Resolution Accuracy Range Resolution Accuracy	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz	0~4400W 100mW			
Power Sampling Fre	Resolution Accuracy Range Resolution Accuracy	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz	0~4400W 100mW rotection	200mW		
Power Sampling Fre	Resolution Accuracy Range Resolution Accuracy	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz	0~4400W 100mW rotection 88V	200mW		
Power Sampling Fre	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C	0~4400W 100mW rotection 88V 489.6A	200mW 220V 979.2A		
Power Sampling Fre	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W	0~4400W 100mW rotection 88V 489.6A	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes	0~4400W 100mW rotection 88V 489.6A	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempera Overvoltage \$	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes	0~4400W 100mW rotection 88V 489.6A	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V	Resolution Accuracy Range Resolution Accuracy equency	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V	Resolution Accuracy Range Resolution Accuracy equency ature Safety Value m	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Tempers Overvoltage S Reverse Alarm Tone Dimensions(V Package Dimensions)	Resolution Accuracy Range Resolution Accuracy squency ature Safety Value m WxHxD) tensions(WxHxD)	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dimen	Resolution Accuracy Range Resolution Accuracy squency ature Safety Value m WxHxD) tensions(WxHxD)	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage	Resolution Accuracy Range Resolution Accuracy squency ature Safety Value m WxHxD) tensions(WxHxD)	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg A	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage Frequency	Resolution Accuracy Range Resolution Accuracy squency ature Safety Value m WxHxD) tensions(WxHxD)	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg A 100~240Vac 50~60Hz	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		
Power Sampling Fre OVP OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage	Resolution Accuracy Range Resolution Accuracy squency ature Safety Value m WxHxD) tensions(WxHxD)	0.04%+0.04%F.S. 0~880W 20mW 0.1%+0.1%F.S. 500kHz P 17.6V 97.92A 906.4W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg A	0~4400W 100mW rotection 88V 489.6A 4532W	200mW 220V 979.2A		



MODEL		EL200VDC11000W				
	Voltage	0~200V				
Rated	Current	0~1200A				
	Power	0~11000W				
	Min. Operating Voltage	0.18V@120A	0.9V@600A	1.8V@1200A		
	3 3 3	31101@1201	Static Mode			
0	Range	0~120A	0~600A	0~1200A		
Constant Current	Resolution	1mA	5mA	10mA		
Mode	Accuracy	0.05%+0.05%F.S.	SHEY	101101		
	Range	0~16V	0~80V	0~200V		
Constant						
Voltage Mode	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.025%+0.025%F.S.	0.5500144	0.4400000		
Constant	Range	0~1100W	0~5500W	0~11000W		
Power	Resolution	20mW	100mW	200mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	3mΩ~30Ω(16V)	12mΩ~120Ω(80V)	300mΩ~600Ω(200V)		
Resistance	Resolution	3mΩ(16V)	12mΩ(80V)	300mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
	Slew Rate(Pro.)	1mA/μs~12A/μs	5mA/µs~30A/µs	10mA/μs~60A/μs		
CCD/CRD	Slew Rate(Adv.)	1mA/µs~1.2A/µs	5mA/µs~6A/µs	10mA/µs~12A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)		101111111111111111111111111111111111111		
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	1mA/µs	5mA/µs	10mA/μs		
			στιν μο	Ισπικήμο		
_	Accuracy	5%±10us				
		0.401/	Measurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~120A	0~600A	0~1200A		
Current	Resolution	1mA	5mA	10mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~1100W	0~5500W	0~11000W		
Power	Resolution	20mW	100mW	200mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
			Protection			
OVP		17.6V	88V	220V		
OCP		122.4A	612A	1224A		
OPP		1133W	5665W	11330W		
Over Tempera	ature	70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr		Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	(NxHxD)	423.0x311.0x670.0mm				
	ensions(WxHxD)					
Unit Weight	OHOIOHO(VVAHAD)	541.0x591.0x891.0mm				
	aht	67kg				
Shipping Wei	gnı	87kg	AC house			
		100 0101	AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
Power		450VA				
Fuse		5A				

MODEL		EL200VDC13200W				
WODEL	Voltage	0~200V				
	Current	0~200V 0~1440A				
Rated	Power	0~13200W				
	Min. Operating Voltage	0.18V@144A	0.9V@720A	1.8V@1440A		
	Will. Operating voltage	_	Static Mode	1.0V@1440A		
	Range	0~144A	0~720A	0~1440A		
Constant Current	Resolution	1mA	5mA	8mA		
Mode	Accuracy	0.05%+0.05%F.S.	OHD C	OHEX		
	Range	0~16V	0~80V	0~200V		
Constant Voltage	Resolution	0.1mV	0.5mV	2mV		
Mode	Accuracy	0.025%+0.025%F.S.	0.31114	ZIIIV		
Constant	Range	0~1320W	0~6600W	0~13200W		
Power	Resolution	40mW	200mW	400mW		
Mode	Accuracy	0.2%+0.2%F.S.	200			
0 1 1	Range	2.5mΩ~25Ω(16V)	10mΩ~100Ω(80V)	250mΩ~500Ω(200V)		
Constant Resistance	Resolution	2.5mΩ(16V)	10mΩ(80V)	250mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	102(001)	2001112(200 V)		
	ricourdoy		ynamic Mode			
	T1&T2(Pro.)	0.02ms~300s	,a			
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
	Slew Rate(Pro.)	1mA/µs~14.4A/µs	5mA/μs~32.4A/μs	10mA/μs~64.8A/μs		
CCD/CRD	Slew Rate(Adv.)	1mA/μs~1.44A/μs	5mA/μs~7.2A/μs	10mA/μs~14.4A/μs		
	Min. Rise Time(Pro.)	10µs(Typical)		10.113 0 po 1 11.11 0 po		
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	1mA/µs	5mA/µs	10mA/µs		
	Accuracy	5%±10us				
	,		easurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Range Resolution		0~80V 0.5mV	0~200V 2mV		
Voltage	Resolution	0~16V				
Voltage		0~16V 0.1mV				
Voltage	Resolution Accuracy	0~16V 0.1mV 0.015%+0.015%F.S.	0.5mV	2mV		
	Resolution Accuracy Range	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A	0.5mV 0~720A	2mV 0~1440A		
	Resolution Accuracy Range Resolution	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA	0.5mV 0~720A	2mV 0~1440A		
	Resolution Accuracy Range Resolution Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S.	0.5mV 0~720A 5mA	2mV 0~1440A 10mA		
Current	Resolution Accuracy Range Resolution Accuracy Range	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W	0.5mV 0~720A 5mA 0~6600W	2mV 0~1440A 10mA 0~13200W		
Current	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW	0.5mV 0~720A 5mA 0~6600W	2mV 0~1440A 10mA 0~13200W		
Current	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0.5mV 0~720A 5mA 0~6600W	2mV 0~1440A 10mA 0~13200W		
Current	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0.5mV 0~720A 5mA 0~6600W 200mW	2mV 0~1440A 10mA 0~13200W		
Current Power Sampling Free	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0.5mV 0~720A 5mA 0~6600W 200mW	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0.5mV 0~720A 5mA 0~6600W 200mW	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency ature Safety Value	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency ature Safety Value m	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency ature Safety Value	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70~75°C 110%VF.S. Yes Yes M 423.0x311.0x670.0mm	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes Yes M 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes Yes Yes M 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes Yes Yes M 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage Frequency	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes Yes M 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0~16V 0.1mV 0.015%+0.015%F.S. 0~144A 1mA 0.04%+0.04%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 17.6V 146.88A 1359.6W 70-75°C 110%VF.S. Yes Yes Yes M 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0.5mV 0~720A 5mA 0~6600W 200mW Protection 88V 734.4A 6798W	2mV 0-1440A 10mA 0-13200W 400mW		



MODEL		EL200VDC15400W				
	Voltage	0~200V				
Rated	Current	0~1680A				
Raieu	Power	0~15400W				
	Min. Operating Voltage	0.18V@168A	0.9V@840A	1.8V@1680A		
			Static Mode			
Constant	Range	0~168A	0~840A	0~1680A		
Current	Resolution	2mA	10mA	20mA		
Mode	Accuracy	0.05%+0.05%F.S.	10.101	20.01		
	Range	0~16V	0~80V	0~200V		
Constant Voltage Mode	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.025%+0.025%F.S.	0.51117	ZIIIV		
		0.025%+0.025%F.S. 0~1540W	0~7700W	0~15400W		
Constant	Range	40mW	200mW	400mW		
Power Mode	Resolution		20011100	40011100		
Wiode	Accuracy	0.2%+0.2%F.S.	12 2 1222/2019			
Constant	Range	2.5mΩ~25Ω(16V)	10mΩ~100Ω(80V)	250mΩ~500Ω(200V)		
Resistance	Resolution	2.5mΩ(16V)	10mΩ(80V)	250mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
000/000	Slew Rate(Pro.)	2mA/μs~16.8A/μs	10mA/μs~33.6A/μs	20mA/μs~67.2A/μs		
CCD/CRD	Slew Rate(Adv.)	2mA/μs~1.68A/μs	10mA/μs~8.4A/μs	20mA/μs~16.8A/μs		
	Min. Rise Time(Pro.)	10µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	2mA/µs	10mA/μs	20mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
vollago	Accuracy	0.015%+0.015%F.S.	C.C.IIIV			
	Range	0~168A	0~840A	0~1680A		
Current	Resolution	2mA	10mA	20mA		
Current	Accuracy	0.04%+0.04%F.S.	TOTIA	201114		
		0.04%+0.04%F.S. 0~1540W	0. 770014/	0. 15400W		
	Range		0~7700W	0~15400W		
Power	Resolution	40mW	200mW	400mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
			Protection			
OVP		17.6V	88V	220V		
OCP		171.36A	856.8A	1713.6A		
OPP		1586.2W	7931W	15862W		
Over Tempera	ature	70-75°C				
Overvoltage S	Safety Value	110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	VxHxD)	423.0x444.0x670.0mm				
Package Dim	ensions(WxHxD)	544.0x741.0x891.0mm				
Unit Weight		94.5kg				
Shipping Wei	ght	116.5kg				
			AC Input			
Voltage		100~240Vac				
Frequency						
		50~60Hz				
Power		700VA				

MODEL		EL200VDC17600W				
	Voltage	0~200V				
Rated	Current	0~1920A				
	Power	0~17600W				
	Min. Operating Voltage	0.18V@192A	0.9V@960A	1.8V@1920A		
	wiiii. Operating voltage	0.10V@192A	Static Mode	1.8V@1920A		
	Panga	0~192A	0~960A	0~1920A		
Constant	Range					
Current Mode	Resolution	2mA	10mA	20mA		
Wiodo	Accuracy	0.05%+0.05%F.S.	2.007	2 222/		
Constant	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~1760W	0~8800W	0~17600W		
Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	2mΩ~20Ω(16V)	7.5mΩ~75Ω(80V)	200mΩ~400Ω(200V)		
Resistance	Resolution	2mΩ(16V)	7.5mΩ(80V)	200mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
	Slew Rate(Pro.)	2mA/μs~19.2A/μs	10mA/μs~38.4A/μs	20mA/μs~76.8A/μs		
CCD/CRD	Slew Rate(Adv.)	2mA/μs~1.92A/μs	10mA/µs~9.6A/µs	20mA/µs~19.2A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)		2000.000		
	Min. Rise Time(Adv.)	50μs(Typical)				
	Resolution	2mA/µs	10mA/µs	20mA/µs		
	Accuracy	5%±10us	101111111111111111111111111111111111111	20.11.040		
	Hocuracy		Measurement			
	Dange	0~16V	0~80V	0~200V		
1/-14	Range					
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.	0.0004	0.40004		
	Range	0~192A	0~960A	0~1920A		
Current	Resolution	2mA	10mA	20mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~1760W	0~8800W	0~17600W		
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
			Protection			
OVP		17.6V	88V	220V		
OVP			979.2A	1958.4A		
OCP		195.84A	010.210			
		195.84A 1812.8W	9064W	18128W		
OCP	ature					
OCP OPP Over Tempera		1812.8W				
OCP OPP Over Tempera Overvoltage S	Safety Value	1812.8W 70-75°C				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	1812.8W 70-75°C 110%VF.S.				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	1812.8W 70-75°C 110%VF.S. Yes				
OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone	Safety Value m	1812.8W 70-75°C 110%VF.S. Yes	9064W			
OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V	Safety Value m WxHxD)	1812.8W 70-75°C 110%VF.S. Yes	9064W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(V Package Dim	Safety Value m	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	9064W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(V Package Dim Unit Weight	MXHxD) ensions(WxHxD)	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg	9064W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight	MXHxD) ensions(WxHxD)	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	9064W Mechanical			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dim- Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	9064W			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	9064W Mechanical			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	9064W Mechanical			



MODEL		EL200VDC19800W				
	Voltage	0~200V				
Rated	Current	0~2160A				
Raieu	Power	0~19800W				
	Min. Operating Voltage	0.18V@216A	0.9V@1080A	1.8V@2160A		
			Static Mode			
Constant	Range	0~216A	0~1080A	0~2160A		
Current	Resolution	2mA	10mA	20mA		
Mode	Accuracy	0.05%+0.05%F.S.				
0	Range	0~16V	0~80V	0~200V		
Constant Voltage Mode	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.025%+0.025%F.S.	0.3111	ZIIIV		
	Range	0~1980W	0~9900W	0~19800W		
Constant Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.	Oddiniv	100011111		
	Range		6.7~0-66.70(90)()	400 70 2220(2001)		
Constant		1.7mΩ~16.7Ω(16V)	6.7mΩ~66.7Ω(80V)	166.7mΩ~333Ω(200V)		
Resistance Mode	Resolution	1.7mΩ(16V)	6.7mΩ(80V)	166.7mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
CCD/CRD	Slew Rate(Pro.)	2mA/μs~21.6A/μs	10mA/μs~43.2A/μs	20mA/µs~86.4A/µs		
OOD/OND	Slew Rate(Adv.)	2mA/μs~2.16A/μs	10mA/μs~10.8A/μs	20mA/μs~21.6A/μs		
	Min. Rise Time(Pro.)	10μs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	2mA/µs	10mA/μs	20mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.		·		
	Range	0~216A	0~1080A	0~2160A		
Current	Resolution	2mA	10mA	20mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~1980W	0~9900W	0~19800W		
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre		500kHz				
	4		Protection			
OVP		17.6V	88V	220V		
OCP		220.32A	1101.6A	2203.2A		
OPP		2039.4W	10197W	20394W		
Over Tempera	ature	70-75°C	10.0.11	2000		
Overvoltage S		110%VF.S.				
		Yes				
Reverse Alarr	"	Yes				
Alarm Tone			Machanical			
Dimonsions (1)	MyHyD)		Mechanical			
Dimensions(V		423.0x444.0x670.0mm				
_	ensions(WxHxD)	544.0x741.0x891.0mm				
Unit Weight	-1-1	105.5kg				
Shipping Wei	gnt	127.5kg	101			
			AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
Power		700VA				
Fuse		8A				

	EL200VDC22000W				
Voltage	0~200V				
Current	0~2400A				
Power	0~22000W				
		0.9V@1200A	1.8V@2400A		
The second secon					
Range	0~240A	0~1200A	0~2400A		
			40mA		
		201121	10.00		
		0~80V	0~200V		
			2mV		
		0.5mv	ZIIIV		
-		0~11000W	0~22000W		
-			1000mW		
		COSITIV	100011111		
•		6m0~600(80\V)	150mΩ~300Ω(200V)		
			150mΩ(200V)		
		011122(00V)	15011122(2007)		
Accuracy)vnamic Mode			
T18 T2/Pro \		ynamic wode			
•		20	40. 44. 0044		
			40mA/μs~96A/μs		
		20ΠΑ/μς~12Α/μς	40mA/μs~24A/μs		
• •		20 4 /	40 41		
	·	ZOΠΑ/μS	40mA/μs		
Accuracy					
Dange			0~200V		
		U.5mV	2mV		
		0.40004	0~2400A		
		20mA	40mA		
			0.0000014		
			0~22000W		
		500mW	1000mW		
·					
luency	500kHz	D 4 4			
			9991		
			220V		
			2448A		
		1133UVV	22660W		
ture	70-75°C				
	110%VF.S.				
1	Yes				
	Yes	Technological Control			
		lechanical			
(vHvD)	422 0v577 0v670 0mm				
/xHxD)	423.0x577.0x670.0mm				
/xHxD) ensions(WxHxD)	541.0x861.0x891.0mm				
nsions(WxHxD)	541.0x861.0x891.0mm 129kg				
	541.0x861.0x891.0mm	A0 loose			
nsions(WxHxD)	541.0x861.0x891.0mm 129kg 153kg	AC Input			
nsions(WxHxD)	541.0x861.0x891.0mm 129kg 153kg	AC Input			
nsions(WxHxD)	541.0x861.0x891.0mm 129kg 153kg	AC Input			
1	Min. Operating Voltage Range Resolution Accuracy T1&T2(Pro.) T1&T2(Adv.) Resolution Accuracy Slew Rate(Pro.) Slew Rate(Pro.) Min. Rise Time(Pro.) Min. Rise Time(Adv.) Resolution Accuracy Range Resolution	Range 0~240A Resolution 4mA Accuracy 0.05%+0.05%F.S. Range 0~16V Resolution 0.1mV Accuracy 0.025%+0.025%F.S. Range 0~2200W Resolution 100mW Accuracy 0.2%+0.2%F.S. Range 1.5mΩ-15Ω(16V) Resolution 1.5mΩ(16V) Accuracy Vin/Rset*(0.2%)+0.2% IF.S. T1&T2(Pro.) 0.02ms~300s T1&T2(Adv.) 0.05ms~300s Resolution 1μs Accuracy 1μs+100ppm Slew Rate(Pro.) 4mA/μs~24A/μs Min. Rise Time(Pro.) 10μs(Typical) Min. Rise Time(Adv.) 50μs(Typical) Resolution 4mA/μs Accuracy 5%±10us Range 0~16V Resolution 0.1mV Accuracy 0.015%+0.015%F.S. Range 0~240A Resolution 4mA Accuracy 0.04%+0.04%F.S. Range 0~2200W Resolution 100mW Accuracy 0.1%+0.1%F.S. Souch 244.8A 2266W T1-FC 2266W T0-75°C	Static Mode		



MODEL	Voltage	EL200VDC24200W 0~200V				
	Current					
Rated	Power	0~2640A				
		0~24200W	0.01/0.40004	4.01/0.00044		
	Min. Operating Voltage	0.18V@264A	0.9V@1320A Static Mode	1.8V@2064A		
	Pango	0-2644	0~1320A	0~2640A		
Constant	Range Resolution	0~264A				
Current Mode	Accuracy	4mA 0.05%+0.05%F.S.	20mA	40mA		
	Range	0.05%+0.05%F.S. 0~16V	0~80V	0~200V		
Constant	Resolution	0.1mV	0.5mV	2mV		
Voltage Mode	Accuracy	0.025%+0.025%F.S.	0.51110	ZIIIV		
	Range	0~2420W	0~12100W	0~24200W		
Constant Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.	Oddiniv	100011111		
	Range	1.5mΩ~15Ω(16V)	6mΩ~60Ω(80V)	150mΩ~300Ω(200V)		
Constant Resistance	Resolution	1.5mΩ(16V)	6mΩ(80V)	150mΩ(200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	01112(0000)	13011122(2007)		
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s	2 manilo mode			
	T1&T2(PIO.)	0.02ms~300s 0.05ms~300s				
	Resolution	1µs				
	Accuracy	1μs+100ppm				
	Slew Rate(Pro.)	4mA/µs~26.4A/µs	20mA/µs~52.8A/µs	40mA/μs~105.6A/μs		
CCD/CRD	Slew Rate(Adv.)	4mA/μs~2.64A/μs	20mA/μs~13.2A/μs	40mA/µs~26.4A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)	20112 0 pc 10:22 0 pc			
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	4mA/µs	20mA/µs	40mA/µs		
	Accuracy	5%±10us	20111117			
	ricourdoy		Measurement			
_	Range	0~16V	0~80V	0~200V		
Voltage	Resolution	0.1mV	0.5mV	2mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~264A	0~1320A	0~2640A		
Current	Resolution	4mA	20mA	40mA		
04.101.1	Accuracy	0.04%+0.04%F.S.				
	Range	0~2420W	0~12100W	0~24200W		
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre		500kHz				
, ,			Protection			
OVP		17.6V	88V	220V		
OCP		269.28A	1346.4A	2692.8A		
OPP		2492.6W	12463W	24926W		
Over Tempera	ature	70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	VxHxD)	423.0x577.0x670.0mm				
Package Dime	ensions(WxHxD)	541.0x861.0x891.0mm				
Unit Weight		134.5kg				
Shipping Wei	ght	158.5kg				
			AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
Power		900VA				
Fuse		10A				

	EL200VDC26400W					
Voltage	0~200V					
Current	0~2880A					
Power	0~26400W					
Min. Operating Voltage	0.18V@288A	0.9V@1440A	1.8V@2880A			
3 3 3		_				
Range	0~288A	0~1440A	0~2880A			
Resolution	4mA	20mA	40mA			
Accuracy	0.05%+0.05%F.S.					
Range	0~16V	0~80V	0~200V			
Resolution	0.1mV	0.5mV	2mV			
Accuracy	0.025%+0.025%F.S.					
Range	0~2640W	0~13200W	0~26400W			
Resolution	100mW	500mW	1000mW			
	0.2%+0.2%F.S.					
	1.3mΩ~12.5Ω(16V)	5mΩ~50Ω(80V)	125mΩ~250Ω(200V)			
			125mΩ(200V)			
Accuracy			, ,			
,		Ovnamic Mode				
T1&T2(Pro.)	0.02ms~300s					
	0.05ms~300s					
•		20mA/us~57 6A/us	40mA/μs~115.2A/μs			
		· · · · · · · · · · · · · · · · · · ·	40mA/µs~28.8A/µs			
		20mA/us	40mA/µs			
	·	201111140	10112 0 40			
Accuracy		Accurement				
Pange			0~200V			
			2mV			
		0.5111	ZIIIV			
·		0~1440A	0~2880A			
_			40mA			
		ZoniA	401101			
-		0~12200W	0~26400W			
			1000mW			
	10011111	30011100	100011144			
A 001180011	0.1%+0.1%FS					
Accuracy	0.1%+0.1%F.S.					
Accuracy	0.1%+0.1%F.S. 500kHz	Protection				
	500kHz	Protection	2201/			
	500kHz	88V	220V 2937 6A			
	500kHz 17.6V 293.76A	88V 1468.8A	2937.6A			
quency	17.6V 293.76A 2719.2W	88V				
quency	17.6V 293.76A 2719.2W 70-75°C	88V 1468.8A	2937.6A			
quency ature Safety Value	17.6V 293.76A 2719.2W 70-75°C 110%VF.S.	88V 1468.8A	2937.6A			
quency	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes	88V 1468.8A	2937.6A			
quency ature Safety Value	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes	88V 1468.8A 13596W	2937.6A			
quency ature Safety Value m	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes	88V 1468.8A	2937.6A			
ature Safety Value m	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes	88V 1468.8A 13596W	2937.6A			
quency ature Safety Value m	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	88V 1468.8A 13596W	2937.6A			
ature Safety Value m WxHxD) ensions(WxHxD)	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	88V 1468.8A 13596W	2937.6A			
ature Safety Value m	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	88V 1468.8A 13596W	2937.6A			
ature Safety Value m WxHxD) ensions(WxHxD)	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	88V 1468.8A 13596W	2937.6A			
ature Safety Value m WxHxD) ensions(WxHxD)	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	88V 1468.8A 13596W	2937.6A			
ature Safety Value m WxHxD) ensions(WxHxD)	17.6V 293.76A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	88V 1468.8A 13596W	2937.6A			
	Current Power Min. Operating Voltage Range Resolution Accuracy Range Resolution	Voltage 0~200V Current 0~2880A Power 0~26400W Min. Operating Voltage 0.18V@288A Range 0~288A Resolution 4mA Accuracy 0.05%+0.05%F.S. Range 0~16V Resolution 0.1mV Accuracy 0.025%+0.025%F.S. Range 0~2640W Resolution 100mW Accuracy 0.2%+0.2%F.S. Range 1.3mQ~12.5Q(16V) Resolution 1.3mQ(16V) Accuracy Vin/Rset*(0.2%)+0.2% IF.S. T18T2(Pro.) 0.02ms~300s T18T2(Adv.) 0.05ms~300s Resolution 1µs Accuracy 1µs+100ppm Slew Rate(Pro.) 4mA/µs~28.8A/µs Min. Rise Time(Pro.) 10µs(Typical) Min. Rise Time(Adv.) 50µs(Typical) Resolution 4mA/µs Accuracy 5%±10us Range 0~16V Resolution 0.1mV Accuracy	Voltage			



0001/0 : 0				
200V Series Sy	stem Specifications	No	on Linear Mode	
	CL	30uF~50000uF		
	RL	As CR Mode		
Range	Ls	0.1uH~16uH		
	Rs	30mΩ~20Ω		
	CL	1uF		
RL		As CR Mode		
Resolution		0.1uH		
Ls Rs		1mΩ		
	11.0		y Discharge Mode	
Battery Voltage		As CV Mode	, , , , , , , , , , , , , , , , , , , ,	
Current Resolution	on	As CC Mode		
Record		AH/WH		
Test Time		1s~100000s		
Time Resolution		1s		
			Program Mode	
Step No.		300 Max.		
Dwell		0.1ms~4000s		
Spec Check		Voltage/Current/Power		
			veform Control/Monitor	
Control/Monitor		Voltage/Current		
Input/Ouput Ran	nge	0~10V		
Voltage Range		0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Current Range		0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy		0.4%F.S.		
Resolution		4mV		
Bandwidth		20kHz		
Input Impedance	•	10kΩ		
			Short Circuit	
Current(CC)		Full range current value		
Voltage(CV)		Voltage value at the Max power	er in working mode	
Resistance(CR)		Min resistance value of CR Mo	de	
			Master/Slave	
Parallel Interface	•	RJ45		
Parallel Quantity	(Pro.)	20 units		
Parallel Quantity	(Adv.)	10 units		
			General	
			General	
Graphic Display	_	4.3" Color touch LCD	General	
Graphic Display Operation Key F			Knob, USB port for transfer and upgrading firmw	are
	eature			are
Operation Key F	eature	Soft key, Numeric key, Rotary		are
Operation Key F Rack Mount Har	eature	Soft key, Numeric key, Rotary Yes	Knob, USB port for transfer and upgrading firmw	are
Operation Key F Rack Mount Har FAN	eature	Soft key, Numeric key, Rotary Yes Temperature Control	Knob, USB port for transfer and upgrading firmw	are
Operation Key F Rack Mount Har FAN Interface Communication	Feature Indles Response Time	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms	Knob, USB port for transfer and upgrading firmw	
Operation Key F Rack Mount Har FAN Interface	Feature Indles Response Time	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms	Knob, USB port for transfer and upgrading firmw.	
Operation Key F Rack Mount Har FAN Interface Communication	Feature Indles Response Time	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set)	Knob, USB port for transfer and upgrading firmw.	
Operation Key F Rack Mount Har FAN Interface Communication	Feature Indles Response Time	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set)	Knob, USB port for transfer and upgrading firmward, GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit	Response Time y	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set)	Knob, USB port for transfer and upgrading firmward, GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit	Response Time y erature	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set)	Knob, USB port for transfer and upgrading firmw. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Tempera	Response Time y erature ature efficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set)	Knob, USB port for transfer and upgrading firmw. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coe	Response Time y erature ature efficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E 0~40°C -20~80°C 100ppm/*C(Typical)	Knob, USB port for transfer and upgrading firmw. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coc Relative Humidit Altitude	Response Time y erature ature efficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E 0~40°C -20~80°C 100ppm/°C(Typical) 10~90%RH <2000m	Knob, USB port for transfer and upgrading firmw. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temperature Coo Relative Humidit	Response Time y erature ature efficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E 0~40°C -20~80°C 100ppm/°C(Typical) 10~90%RH <2000m	Knob, USB port for transfer and upgrading firmward. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coc Relative Humidit Altitude	Response Time y erature efficient y	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E0-40°C -20-80°C 100ppm/*C(Typical) 10-90%RH <2000m Regulati	Knob, USB port for transfer and upgrading firmward. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coc Relative Humidit Altitude Overvoltage Cat	Response Time y erature ature efficient y	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E0-40°C -20~80°C 100ppm/"C(Typical) 10-90%RH 42000m Regulat	Knob, USB port for transfer and upgrading firmward. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coe Relative Humidit Altitude Overvoltage Cat Protection Degree	Response Time y erature etiture etiticient y eegory	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E 0~40°C -20~80°C 100ppm/*C(Typical) 10~90%RH <2000m Regulat II	Knob, USB port for transfer and upgrading firmward. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	
Operation Key F Rack Mount Har FAN Interface Communication Storage Capacit Operating Temper Storage Temperature Coc Relative Humidit Altitude Overvoltage Cat Protection Degree	Response Time y erature etiture etiticient y regory ee	Soft key, Numeric key, Rotary I Yes Temperature Control RS232/RS485/USB(Standard) 30ms User defined settings (300 sets Factory setting (1 set) E0-40°C -20-80°C 100ppm/*C(Typical) 10-90%RH <2000m Regulat II II	Knob, USB port for transfer and upgrading firmward. , GPIB/LAN(Optional) s), OCP settings (10 sets), OPP settings (10 sets)	

All specifications are subject to change without notice.

MODEL		EL600VDC1200W					
	Voltage	0~600V					
	Current	0~90A					
Rated	Power	0~1200W					
	Min. Operating Voltage	0.8V@9A	4V@45A	8V@90A			
	wiii. Operating voltage	0.0V@3A	Static Mode	0V@30A			
	Pango	0~9A	0~45A	0~90A			
Constant Current	Range						
Mode	Resolution	0.1mA	0.5mA	1mA			
Wiodo	Accuracy	0.05%+0.05%F.S.	2 (20)				
Constant	Range	0~80V	0~150V	0~600V			
Voltage Mode	Resolution	0.5mV	1mV	5mV			
Wode	Accuracy	0.025%+0.025%F.S.	0.00014	0.400014			
Constant	Range	0~120W	0~600W	0~1200W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	275mΩ~2750Ω(80V)	1100mΩ~11000Ω(150V)	11000mΩ~22000Ω(600V)			
Resistance	Resolution	275mΩ(80V)	1100mΩ(150V)	11000mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.					
			Dynamic Mode				
T1&T2(Pro.)		0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
	Slew Rate(Pro.)	0.1mA/μs~0.9A/μs	0.5mA/µs~3.15A/µs	1mA/µs~6.3A/µs			
CCD/CRD	Slew Rate(Adv.)	0.1mA/µs~0.09A/µs	0.5mA/µs~0.45A/µs	1mA/µs~0.9A/µs			
	Min. Rise Time(Pro.)	10µs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.1mA/µs	0.5mA/µs	1mA/μs			
	Accuracy	5%±10us					
			Measurement				
	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
	Accuracy	0.015%+0.015%F.S.					
	Range	0~9A	0~45A	0~90A			
Current	Resolution	0.1mA	0.5mA	1mA			
	Accuracy	0.04%+0.04%F.S.					
	Range	0~120W	0~600W	0~1200W			
Power	Resolution	10mW	50mW	100mW			
i owoi	Accuracy	0.1%+0.1%F.S.	00	100			
Sampling Fre		500kHz					
oumpling i re	quency	300KHZ	Protection				
OVP		88V	165V	660V			
OCP		9.18A	45.9A				
OPP		9.18A 123.6W	45.9A 618W	91.8A 1236W			
	atura	70-75°C	61844	123677			
Over Temper		110%VF.S.					
Overvoltage S							
Reverse Aları	"	Yes					
Alarm Tone		Yes	Mechanical				
Dimensions(\	MvHvD)	423.0x88.0x610.0mm	Wechanical				
	ensions(WxHxD)	665.0x333.0x918.0mm					
Unit Weight	1.	20kg					
Shipping Wei	ght	29kg	AC land				
V 11		400 040\/	AC Input				
Voltage _		100~240Vac					
Frequency		50~60Hz					
Power Fuse		150VA 2.5A					



MODEL	Voltage	EL600VDC1800W 0~600V					
	Current	0~130A					
Rated	Power	0~1800W					
	Min. Operating Voltage	0.8V@13A	4V@65A	8V@130A			
	wiiii. Operating voltage	0.6V@13A	Static Mode	8V@130A			
0 1 1	Range	0~13A	0~65A	0~130A			
Constant Current	Resolution	0.1mA	0.5mA	1mA			
Mode	Accuracy	0.05%+0.05%F.S.	0.0				
Canatant	Range	0~80V	0~150V	0~600V			
Constant Voltage	Resolution	0.5mV	1mV	5mV			
Mode	Accuracy	0.025%+0.025%F.S.		S.II.			
Constant	Range	0~180W	0~900W	0~1800W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	200mΩ~2000Ω(80V)	800mΩ~8000Ω(150V)	8000mΩ~16000Ω(600V)			
Constant Resistance	Resolution	200mΩ(80V)	800mΩ(150V)	8000mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		(,,,,			
			Dynamic Mode				
	T1&T2(Pro.)	0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
	Slew Rate(Pro.)	0.1mA/µs~1.3A/µs	0.5mA/µs~4.55A/µs	1mA/μs~9.1A/μs			
CCD/CRD	Slew Rate(Adv.)	0.1mA/µs~0.13A/µs	0.5mA/µs~0.65A/µs	1mA/μs~1.3A/μs			
	Min. Rise Time(Pro.)	10μs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.1mA/µs	0.5mA/µs	1mA/μs			
	Accuracy	5%±10us					
	,		Measurement				
_	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
ŭ	Accuracy	0.015%+0.015%F.S.					
	Range	0~13A	0~65A	0~130A			
Current	Resolution	0.1mA	0.5mA	1mA			
	Accuracy	0.04%+0.04%F.S.					
	Range	0~180W	0~900W	0~1800W			
Power	Resolution	10mW	50mW	100mW			
	Accuracy	0.1%+0.1%F.S.					
Sampling Fre		500kHz					
			Protection				
OVP		88V	165V	660V			
OCP		13.26A	66.3A	132.6A			
OPP		185.4W	927W	1854W			
Over Tempera	ature	70-75°C					
Overvoltage S	Safety Value	110%VF.S.					
Reverse Alarr	m	Yes					
Alarm Tone		Yes					
			Mechanical				
Dimensions(V	WxHxD)	423.0x88.0x610.0mm					
Package Dim	ensions(WxHxD)	665.0x333.0x918.0mm					
Unit Weight		22kg					
Shipping Wei	ght	31kg					
			AC Input				
Voltage		100~240Vac					
Frequency		50~60Hz					
Power		150VA					
Fuse		2.5A					

MODEL		EL600VDC2400W					
	Voltage	0~600V					
	Current	0~180A					
Rated	Power	0~2400W					
	Min. Operating Voltage	0.8V@18A	4V@90A	8V@180A			
	wiii. Operating voltage		Static Mode	0 V @ 100A			
	Pango	0~18A	0~90A	0~180A			
Constant Current	Range						
Mode	Resolution	0.2mA	1mA	2mA			
	Accuracy	0.05%+0.05%F.S.		2 222/			
Constant	Range	0~80V	0~150V	0~600V			
Voltage Mode	Resolution	0.5mV	1mV	5mV			
Mode	Accuracy	0.025%+0.025%F.S.					
Constant	Range	0~240W	0~1200W	0~2400W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	137.5mΩ~1375Ω(80V)	550mΩ~5500Ω(150V)	5500mΩ~11000Ω(600V)			
Resistance	Resolution	137.5mΩ(80V)	550mΩ(150V)	5500mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.					
		ı	Dynamic Mode				
	T1&T2(Pro.)	0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1μs+100ppm					
	Slew Rate(Pro.)	0.2mA/μs~1.8A/μs	1mA/μs~6.3A/μs	2mA/μs~12.6A/μs			
CCD/CRD	Slew Rate(Adv.)	0.2mA/μs~0.18A/μs	1mA/μs~0.9A/μs	2mA/μs~1.8A/μs			
	Min. Rise Time(Pro.)	10µs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.2mA/µs	1mA/µs	2mA/µs			
	Accuracy	5%±10us					
			Measurement				
_	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
	Accuracy	0.015%+0.015%F.S.					
	Range	0~18A	0~90A	0~180A			
Current	Resolution	0.2mA	1mA	2mA			
Current	Accuracy	0.04%+0.04%F.S.	1117.	2			
		0~240W	0~1200W	0~2400W			
D	Range	10mW		100mW			
Power	Resolution	0.1%+0.1%F.S.	50mW	TOOTHV			
O	Accuracy						
Sampling Fre	quency	500kHz	Dunda shi su				
O) /D		2014	Protection	0001			
OVP		88V	165V	660V			
OCP		18.36A	91.8A	183.6A			
OPP		247.2W	1236W	2472W			
Over Temper		70-75°C					
Overvoltage S	Safety Value	110%VF.S.					
Reverse Aları	m	Yes					
Alarm Tone		Yes					
			Mechanical				
Dimensions(V		423.0x88.0x610.0mm					
	ensions(WxHxD)	665.0x333.0x918.0mm					
Unit Weight		24kg					
Shipping Wei	ght	33kg					
V !!		400 040\/	AC Input				
Voltage		100~240Vac					
		50~60Hz					
Frequency							
Frequency Power Fuse		180VA 2.5A					



MODEL	Voltage	EL600VDC3000W 0~600V				
	Current					
Rated	Power	0~2200A 0~3000W				
			0/04404	01/@2204		
	Min. Operating Voltage	0.8V@22A	4V@110A Static Mode	8V@220A		
	Range	0~22A	0~110A	0~220A		
Constant Current	Resolution	0~22A 0.2mA	1mA	0~220A 2mA		
Mode	Accuracy	0.05%+0.05%F.S.	IIIIA	ZIIIA		
		0~80V	0~150V	0~600V		
Constant Voltage Mode	Range Resolution	0~80V				
	Accuracy	0.025%+0.025%F.S.	1mV	5mV		
		0.025%+0.025%F.S. 0~300W	0~1500W	0~3000W		
Constant Power	Range	10mW	50mW	100mW		
Mode	Resolution	0.2%+0.2%F.S.	SULLAN	TOOTHV		
	Accuracy		440~0~44000(450)()	4400 0.00000/0001/0		
Constant	Range	110mΩ~1100Ω(80V)	440mΩ~4400Ω(150V)	4400mΩ~8800Ω(600V)		
Resistance Mode	Resolution	110mΩ(80V)	440mΩ(150V)	4400mΩ(600V)		
	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	Dynamic Mode			
	T19T2/Dre \	0.02ma 200a	Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.) Resolution	0.05ms~300s				
	Accuracy	1µs				
CCD/CRD	•	1µs+100ppm	1m \(\lambda\) (1 \tau \)	Om A/v = 45 111		
	Slew Rate(Pro.)	0.2mA/μs~2.2A/μs	1mA/µs~7.7A/µs	2mA/µs~15.4A/µs		
	Slew Rate(Adv.)	0.2mA/µs~0.22A/µs	1mA/μs~1.1A/μs	2mA/µs~2.2A/µs		
	Min. Rise Time(Pro.)	10µs(Typical)				
	Min. Rise Time(Adv.)	50μs(Typical)	4	O A /		
	Resolution	0.2mA/µs	1mA/µs	2mA/µs		
	Accuracy	5%±10us				
	_	0.001/	Measurement	0.0001		
	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
	Accuracy	0.015%+0.015%F.S.	0.4404	0.0004		
	Range	0~22A	0~110A	0~220A		
Current	Resolution	0.2mA	1mA	2mA		
	Accuracy	0.04%+0.04%F.S.		0.000014		
	Range	0~300W	0~1500W	0~3000W		
Power	Resolution	10mW	50mW	100mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz	-			
21/2			Protection			
OVP		88V	165V	660V		
OCP		22.44A	112.2A	224.4A		
OPP		309W	1545W	3090W		
Over Tempera		70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes	Madaglad			
Dimensions(V	(//UVD)	422 0v99 0v640 0	Mechanical			
		423.0x88.0x610.0mm				
	ensions(WxHxD)	665.0x333.0x918.0mm				
Unit Weight	ah t	26kg				
Shipping Wei	gnt	35kg	AC Input			
Voltage		100~240Vac	AC mput			
Voltage		100~240 vac 50~60Hz				
		5U~6UHZ				
Frequency Power		180VA				

MODEL		EL600VDC3400W					
	Voltage	0~600V					
	Current	0~250A					
Rated	Power	0~3400W					
	Min. Operating Voltage	0.8V@25A	4V@125A	8V@250A			
_	Willi. Operating Voltage	0.6V@25A	Static Mode	8V@230A			
_	Range	0~25A	0~125A	0~250A			
Constant Current							
Mode	Resolution	0.4mA	2mA	4mA			
	Accuracy	0.05%+0.05%F.S.	0.4507	0.0001			
Constant	Range	0~80V	0~150V	0~600V			
Voltage Mode	Resolution	0.5mV	1mV	5mV			
Mode	Accuracy	0.025%+0.025%F.S.	0. 470014	0.040014			
Constant	Range	0~340W	0~1700W	0~3400W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	100mΩ~1000Ω(80V)	400mΩ~4000Ω(150V)	4000mΩ~8000Ω(600V)			
Resistance	Resolution	100mΩ(80V)	400mΩ(150V)	4000mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.					
			Dynamic Mode				
	T1&T2(Pro.)	0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
	Slew Rate(Pro.)	0.4mA/μs~1A/μs	2mA/µs~5A/µs	4mA/μs~10A/μs			
CCD/CRD	Slew Rate(Adv.)	0.4mA/µs~0.25A/µs	2mA/μs~1.25A/μs	4mA/μs~2.5A/μs			
	Min. Rise Time(Pro.)	20µs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.4mA/µs	2mA/µs	4mA/µs			
	Accuracy	5%±10us					
			Measurement				
_	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
3	Accuracy	0.015%+0.015%F.S.					
	Range	0~25A	0~125A	0~250A			
Current	Resolution	0.4mA	2mA	4mA			
Ourion	Accuracy	0.04%+0.04%F.S.					
	Range	0~340W	0~1700W	0~3400W			
Power	Resolution	10mW	50mW	100mW			
1 OWC		0.1%+0.1%F.S.	COMV	10011111			
Sampling Fre	Accuracy	500kHz					
Oamping 1 Te	quericy	JOORITZ	Protection				
OVP		9.0\/	165V	660V			
		88V					
OCP		25.5A	127.5A	255A			
			1751W	3502W			
OPP		350.2W					
OPP Over Temper		70-75°C					
OPP Over Temper Overvoltage	Safety Value	70-75°C 110%VF.S.					
OPP Over Temper Overvoltage \$ Reverse Alarr	Safety Value	70-75°C 110%VF.S. Yes					
OPP Over Temper Overvoltage \$ Reverse Alarr	Safety Value	70-75°C 110%VF.S. Yes	Moderical				
OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone	Safety Value m	70-75°C 110%VF.S. Yes Yes	Mechanical				
OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(\)	Safety Value m WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm	Mechanical				
OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(\(\) Package Dim	Safety Value m	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	Mechanical				
OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(\(\) Package Dim Unit Weight	Safety Value m WxHxD) ensions(WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg	Mechanical				
OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(\(\) Package Dim Unit Weight	Safety Value m WxHxD) ensions(WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm					
OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(\text{V} Package Dim Unit Weight Shipping Wei	Safety Value m WxHxD) ensions(WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg	Mechanical AC Input				
OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(\text{V} Package Dim Unit Weight Shipping Wei	Safety Value m WxHxD) ensions(WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg					
OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(\text{V} Package Dim Unit Weight Shipping Wei	Safety Value m WxHxD) ensions(WxHxD)	70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg					



MODEL		EL600VDC4400W				
	Voltage	0~600V				
Rated	Current	0~320A				
	Power	0~4400W				
	Min. Operating Voltage	0.8V@32A	4V@160A	8V@320A		
			Static Mode			
Constant	Range	0~32A	0~160A	0~320A		
Current	Resolution	0.4mA	2mA	4mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
Mode	Accuracy	0.025%+0.025%F.S.				
	Range	0~440W	0~2200W	0~4400W		
Power	Resolution	10mW	50mW	100mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	75mΩ~750Ω(80V)	300mΩ~3000Ω(150V)	3000mΩ~6000Ω(600V)		
Resistance	Resolution	75mΩ(80V)	300mΩ(150V)	3000mΩ(600V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
CCD/CRD	Accuracy	1μs+100ppm				
	Slew Rate(Pro.)	0.4mA/μs~1.28A/μs	2mA/µs~6.4A/µs	4mA/μs~12.8A/μs		
	Slew Rate(Adv.)	0.4mA/μs~0.32A/μs	2mA/µs~1.6A/µs	4mA/μs~3.2A/μs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.4mA/µs	2mA/µs	4mA/μs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~32A	0~160A	0~320A		
Current	Resolution	0.4mA	2mA	4mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~440W	0~2200W	0~4400W		
Power	Resolution	10mW	50mW	100mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre		500kHz				
			Protection			
OVP		88V	165V	660V		
OCP		32.6A	163.2A	326.4A		
OPP		453.2W	2266W	4532W		
Over Tempera	ature	70-75°C		'		
Overvoltage S		110%VF.S.				
Reverse Alarr	•	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	VxHxD)	423.0x133.0x610.0mm				
	ensions(WxHxD)	665.0x348.0x918.0mm				
Unit Weight	O.I.O.OIIO(TTALIAD)	28.5kg				
Shipping Wei	aht	37.3kg				
C. IIPPING WEI	ə	5ong	AC Input			
		100~240Vac	7.6 input			
		.50 240 000				
		50~60Hz				
Voltage Frequency Power		50~60Hz 200VA				

MODEL		EL600VDC5600W					
	Voltage	0~600V					
	Current	0~410A					
Rated	Power	0~5600W					
	Min. Operating Voltage	0.8V@41A	4V@205A	8V@410A			
	wiiii. Operating voltage	0.0V@41A	Static Mode	0404107			
	Range	0~41A	0~205A	0~410A			
Constant Current							
Mode	Resolution	0.4mA	2mA	4mA			
Wiodo	Accuracy	0.05%+0.05%F.S.	2 (20)	2 222/			
Constant	Range	0~80V	0~150V	0~600V			
Voltage Mode	Resolution	0.5mV	1mV	5mV			
Mode	Accuracy	0.025%+0.025%F.S.					
Constant	Range	0~560W	0~2800W	0~5600W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	60mΩ~600Ω(80V)	250mΩ~2500Ω(150V)	2500mΩ~5000Ω(600V)			
Resistance	Resolution	60mΩ(80V)	250mΩ(150V)	2500mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.					
			Dynamic Mode				
	T1&T2(Pro.)	0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
	Slew Rate(Pro.)	0.4mA/μs~1.64A/μs	2mA/µs~8.2A/µs	4mA/μs~16.4A/μs			
CCD/CRD	Slew Rate(Adv.)	0.4mA/μs~0.41A/μs	2mA/μs~2.05A/μs	4mA/µs~4.1A/µs			
	Min. Rise Time(Pro.)	20µs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.4mA/µs	2mA/µs	4mA/µs			
	Accuracy	5%±10us					
	7 toourdoy	07021000	Measurement				
	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
voitage		0.015%+0.015%F.S.	IIIIV	SIIIV			
	Accuracy		0~205A	0~410A			
	Range	0~41A					
Current	Resolution	0.4mA	2mA	4mA			
	Accuracy	0.04%+0.04%F.S.					
	Range	0~560W	0~2800W	0~5600W			
Power	Resolution	10mW	50mW	100mW			
	Accuracy	0.1%+0.1%F.S.					
Sampling Fre	quency	500kHz					
			Protection				
OVP		88V	165V	660V			
OCP		41.82A	209.1A	418.2A			
OPP		576.8W	2884W	5768W			
Over Tempera	ature	70-75°C					
Overvoltage S	Safety Value	110%VF.S.					
Reverse Aları	m	Yes					
Alarm Tone		Yes					
Dimensions(V	MyHyD)	423.0x133.0x610.0mm	Mechanical				
	ensions(WxHxD)						
_	ensions(wxnxD)	665.0x348.0x918.0mm					
Unit Weight	-1-4	32.5kg					
	gnt	41.3kg	AC Input				
Snipping wei							
Voltage		100~240Vac					
Shipping Wei Voltage Frequency		100~240Vac 50~60Hz					
Voltage							



MODEL		EL600VDC6600W					
	Voltage	0~600V					
D-4-4	Current	0~480A					
Rated	Power	0~6600W					
	Min. Operating Voltage	0.8V@48A	4V@240A	8V@480A			
	3 3 3		Static Mode				
0	Range	0~48A	0~240A	0~480A			
Constant Current	Resolution	0.5mA	2mA	5mA			
Mode	Accuracy	0.05%+0.05%F.S.	ZIIIA	SIIA			
			0~150V	0~600V			
Constant	Range	0~80V					
Voltage Mode	Resolution	0.5mV	1mV	5mV			
wode	Accuracy	0.025%+0.025%F.S.	0.000014	0.000014			
Constant	Range	0~660W	0~3300W	0~6600W			
Power	Resolution	10mW	50mW	100mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	50mΩ~500Ω(80V)	200mΩ~2000Ω(150V)	2000mΩ~4000Ω(600V)			
Resistance	Resolution	50mΩ(80V)	200mΩ(150V)	2000mΩ(600V)			
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.					
			Dynamic Mode				
T1&T2(Pro.)		0.02ms~300s					
	T1&T2(Adv.)	0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
CCD/CRD	Slew Rate(Pro.)	0.5mA/μs~1.92A/μs	2mA/µs~9.6A/µs	5mA/μs~19.2A/μs			
	Slew Rate(Adv.)	0.5mA/μs~0.48A/μs	2mA/µs~2.4A/µs	5mA/µs~4.8A/µs			
	Min. Rise Time(Pro.)						
		20µs(Typical) 50µs(Typical)					
	Min. Rise Time(Adv.)		2m A /u o	Em A lug			
	Resolution	0.5mA/µs	2mA/μs	5mA/μs			
	Accuracy	5%±10us					
			leasurement				
	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
	Accuracy	0.015%+0.015%F.S.					
	Range	0~48A	0~240A	0~480A			
Current	Resolution	0.5mA	2mA	5mA			
	Accuracy	0.04%+0.04%F.S.					
	Range	0~660W	0~3300W	0~6600W			
Power	Resolution	10mW	50mW	100mW			
	Accuracy	0.1%+0.1%F.S.					
Sampling Fre		500kHz					
			Protection				
OVP		88V	165V	660V			
OCP		48.96A	244.8A	489.6A			
OPP		679.8W	3399W	6798W			
Over Tempera	ature	70-75°C					
Overvoltage S		110%VF.S.					
		Yes					
Reverse Alarr							
Alarm Tone		Yes	Acchanical				
Dimon-! 0	I/vHvD)		Mechanical Programme Technology				
Dimensions(V		423.0x177.0x610.0mm					
_	ensions(WxHxD)	665.0x392.0x918.0mm					
Unit Weight		38kg					
Shipping Wei	ght	47kg					
			AC Input				
Voltage		100~240Vac					
Frequency		50~60Hz					
		250VA					
Power							

MODEL		EL600VDC8800W					
	Voltage	0~600V					
	Current	0~640A					
Rated	Power	0~8800W					
	Min. Operating Voltage	0.8V@64A	4V@320A	8V@640A			
	3 3 3		Static Mode				
Constant	Range	0~64A	0~320A	0~640A			
Constant Current	Resolution	0.5mA	2mA	5mA			
Mode	Accuracy	0.05%+0.05%F.S.					
Constant	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
Mode	Accuracy	0.025%+0.025%F.S.					
Constant	Range	0~880W	0~4400W	0~8800W			
Power	Resolution	20mW	100mW	200mW			
Mode	Accuracy	0.2%+0.2%F.S.					
Constant	Range	37.5mΩ~375Ω(80V)	150mΩ~1500Ω(150V)	1500mΩ~3000Ω(600V)			
Resistance	Resolution	37.5mΩ(80V)	150mΩ(150V)	1500mΩ(600V)			
Mode Accuracy		Vin/Rset*(0.2%)+0.2% IF.S.					
			Dynamic Mode				
	T1&T2(Pro.)	0.02ms~300s					
T1&T2(Adv.)		0.05ms~300s					
	Resolution	1µs					
	Accuracy	1µs+100ppm					
	Slew Rate(Pro.)	0.5mA/µs~2.56A/µs	2mA/µs~12.8A/µs	5mA/µs~25.6A/µs			
CCD/CRD	Slew Rate(Adv.)	0.5mA/µs~0.64A/µs	2mA/µs~3.2A/µs	5mA/μs~6.4A/μs			
	Min. Rise Time(Pro.)	20µs(Typical)					
	Min. Rise Time(Adv.)	50µs(Typical)					
	Resolution	0.5mA/µs	2mA/µs	5mA/µs			
	Accuracy	5%±10us					
			Measurement				
_	Range	0~80V	0~150V	0~600V			
Voltage	Resolution	0.5mV	1mV	5mV			
ŭ	Accuracy	0.015%+0.015%F.S.					
	Range	0~64A	0~320A	0~640A			
Current	Resolution	0.5mA	2mA	5mA			
	Accuracy	0.04%+0.04%F.S.					
	Range	0~880W	0~4400W	0~8800W			
Power	Resolution	20mW	100mW	200mW			
	Accuracy	0.1%+0.1%F.S.					
Sampling Fre		500kHz					
1 3	, ,		Protection				
OVP		88V	165V	660V			
OCP		65.28A	326.4A	652.8A			
OPP		906.4W	4532W	9064W			
Over Temper	ature	70-75°C					
Overvoltage S		110%VF.S.					
Reverse Aları		Yes					
Alarm Tone		Yes					
			Mechanical				
Dimensions(\	WxHxD)	423.0x311.0x670.0mm					
	ensions(WxHxD)	541.0x591.0x891.0mm					
Unit Weight		61.5kg					
Shipping Wei	aht	81.5kg					
			AC Input				
		100~240Vac					
Voltage							
Voltage Frequency Power		50~60Hz 450VA					



MODEL		EL600VDC11000W				
	Voltage	0~600V				
Rated	Current	0~800A				
ratou	Power	0~11000W				
	Min. Operating Voltage	0.8V@80A	4V@400A	8V@800A		
			Static Mode			
Constant	Range	0~80A	0~400A	0~800A		
Current	Resolution	1mA	5mA	10mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~1100W	0~5500W	0~11000W		
Power	Resolution	20mW	100mW	200mW		
Mode	Accuracy	0.2%+0.2%F.S.	10011111	20011111		
_	-		120,00-12000(150\/)	10000 01000/000\/)		
Constant	Range	30mΩ~300Ω(80V)	120mΩ~1200Ω(150V)	1200mΩ~2400Ω(600V)		
Resistance Mode	Resolution	30mΩ(80V)	120mΩ(150V)	1200mΩ(600V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
CCD/CRD	Accuracy	1μs+100ppm				
	Slew Rate(Pro.)	1mA/µs~3.2A/µs	5mA/μs~16A/μs	10mA/μs~32A/μs		
	Slew Rate(Adv.)	1mA/μs~0.8A/μs	5mA/µs~4A/µs	10mA/µs~8A/µs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	1mA/µs	5mA/µs	10mA/μs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
· ·	Accuracy	0.015%+0.015%F.S.				
	Range	0~80A	0~400A	0~800A		
Current	Resolution	1mA	5mA	10mA		
Ourient	Accuracy	0.04%+0.04%F.S.	OHIV	10.101		
		0~1100W	0~5500W	0~11000W		
Power	Range Resolution	20mW		200mW		
Power			100mW	20011100		
0 " =	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
01/2			Protection			
OVP		88V	165V	660V		
OCP		81.6A	408A	816A		
OPP		1133W	5665W	11330W		
Over Tempera		70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr	n	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V		423.0x311.0x670.0mm				
_	ensions(WxHxD)	541.0x591.0x891.0mm				
Unit Weight		67kg				
Shipping Wei	ght	87kg				
			AC Input			
Voltage		100~240Vac				
Frequency		50~60Hz				
Power		450VA				

MODEL		EL600VDC13200W		
MODEL	Voltage	0~600V		
	Current	0~960A		
Rated	Power	0~13200W		
	Min. Operating Voltage	0.8V@96A	4V@480A	8V@960A
	wiiii. Operating voltage	_	atic Mode	84@900A
	Range	0~96A	0~480A	0~960A
Constant Current	Resolution	1mA	5mA	10mA
Mode	Accuracy	0.05%+0.05%F.S.	SHIP	1011171
	Range	0~80V	0~150V	0~600V
Constant Voltage	Resolution	0.5mV	1mV	5mV
Mode	Accuracy	0.025%+0.025%F.S.	THIV	Siliv
	Range	0~1320W	0~6600W	0~13200W
Constant Power	Resolution	40mW	200mW	400mW
Mode	Accuracy	0.2%+0.2%F.S.	20011100	40011100
			100m0~10000(150V)	1000-0-20000(600)/
Constant	Range	25mΩ~250Ω(80V)	100mΩ~1000Ω(150V)	1000mΩ~2000Ω(600V)
Resistance Mode	Resolution	25mΩ(80V)	100mΩ(150V)	1000mΩ(600V)
Wiode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	aguis Mada	
	T40T0(D)		namic Mode	
	T1&T2(Pro.)	0.02ms~300s 0.05ms~300s		
	T1&T2(Adv.)			
	Resolution	1μs		
	Accuracy	1µs+100ppm	5 4/ 40 04/	
CCD/CRD	Slew Rate(Pro.)	1mA/μs~3.84A/μs	5mA/μs~19.2A/μs	10mA/µs~38.4A/µs
	Slew Rate(Adv.)	1mA/μs~0.96A/μs	5mA/μs~4.8A/μs	10mA/µs~9.6A/µs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)	5.44	10. 14
	Resolution	1mA/µs	5mA/µs	10mA/µs
	Accuracy	5%±10us		
	_		asurement	
	Range	0~80V	0~150V	0~600V
Voltage	Resolution	0.5mV	1mV	5mV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~96A	0~480A	0~960A
Current	Resolution	1mA	5mA	10mA
	Accuracy	0.04%+0.04%F.S.		
	Range	0~1320W	0~6600W	0~13200W
Power	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre	quency	500kHz		
			rotection	
OVP		88V	165V	660V
OCP		88V 97.92A	165V 489.6A	979.2A
		88V 97.92A 1359.6W	165V	
OCP OPP Over Temper		88V 97.92A 1359.6W 70-75°C	165V 489.6A	979.2A
OCP OPP		88V 97.92A 1359.6W	165V 489.6A	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarr	Safety Value	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes	165V 489.6A	979.2A
OCP OPP Over Temper Overvoltage S	Safety Value	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone	Safety Value m	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes	165V 489.6A	979.2A
OCP OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(V	Safety Value m WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(V Package Dim	Safety Value m	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(V Package Dim Unit Weight	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage \$ Reverse Alarm Tone Dimensions(V	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me: 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg A	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage Frequency	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me: 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg A 100~240Vac 50~60Hz	165V 489.6A 6798W	979.2A
OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	88V 97.92A 1359.6W 70-75°C 110%VF.S. Yes Yes Me: 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg A	165V 489.6A 6798W	979.2A



MODEL		EL600VDC15400W		
	Voltage	0~600V		
Detect	Current	0~1120A		
Rated	Power	0~15400W		
	Min. Operating Voltage	0.8V@112A	4V@560A	8V@1120A
	3 3 3		Static Mode	116
0	Range	0~112A	0~560A	0~1120A
Constant Current	Resolution	1mA	5mA	10mA
Mode	Accuracy	0.05%+0.05%F.S.	SHIPA	101111
-	Range	0~80V	0~150V	0~600V
Constant	Resolution			
Voltage Mode		0.5mV	1mV	5mV
	Accuracy	0.025%+0.025%F.S. 0~1540W	0~7700W	0~15400W
Constant	Range			
Power Mode	Resolution	40mW	200mW	400mW
iviode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	21mΩ~210Ω(80V)	85mΩ~850Ω(150V)	850mΩ~1700Ω(600V)
Resistance	Resolution	21mΩ(80V)	85mΩ(150V)	850mΩ(600V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
			Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1μs+100ppm		
000/000	Slew Rate(Pro.)	1mA/μs~4.48A/μs	5mA/µs~22.4A/µs	10mA/μs~44.8A/μs
CCD/CRD	Slew Rate(Adv.)	1mA/μs~1.12A/μs	5mA/µs~5.6A/µs	10mA/μs~11.2A/μs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	1mA/µs	5mA/µs	10mA/μs
	Accuracy	5%±10us		
			Measurement	
	Range	0~80V	0~150V	0~600V
Voltage	Resolution	0.5mV	1mV	5mV
vollago	Accuracy	0.015%+0.015%F.S.		5
	Range	0~112A	0~560A	0~1120A
Current	Resolution	1mA	5mA	10mA
Current	Accuracy	0.04%+0.04%F.S.	JIIIA	IUIIA
		0~1540W	0~7700W	0~15400W
_	Range			
Power	Resolution	40mW	200mW	400mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre	quency	500kHz		
			Protection	
OVP		88V	165V	660V
OCP		114.24A	571.2A	1142.4A
OPP		1586.2W	7931W	15862W
Over Tempera		70-75°C		
Overvoltage S		110%VF.S.		
Reverse Alarr	n	Yes		
Alarm Tone		Yes		
			Mechanical	
Dimensions(V	VxHxD)	423.0x444.0x670.0mm		
Package Dim	ensions(WxHxD)	544.0x741.0x891.0mm		
Unit Weight		94.5kg		
Shipping Wei	ght	116.5kg		
			AC Input	
Voltage		100~240Vac		
		50~60Hz		
rieduency				
Frequency Power		700VA		

MODEL		EL600VDC17600W				
	Voltage	0~600V				
	Current	0~1280A				
Rated	Power	0~17600W				
	Min. Operating Voltage	0.8V@128A	4V@640A	8V@1280A		
	min. Operating vertage	_	Static Mode	0 1 200/1		
0	Range	0~128A	0~640A	0~1280A		
Constant Current	Resolution	1mA	5mA	10mA		
Mode	Accuracy	0.05%+0.05%F.S.	3.13.1	10.00		
^	Range	0~80V	0~150V	0~600V		
Constant Voltage	Resolution	0.5mV	1mV	5mV		
Mode	Accuracy	0.025%+0.025%F.S.	IIIIV	Jiiiv		
0	Range	0~1760W	0~8800W	0~17600W		
Constant Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.	30011111	100011111		
	Range	18.7mΩ~187Ω(80V)	75mΩ~750Ω(150V)	750mΩ~1500Ω(600V)		
Constant Resistance	Resolution	18.7mΩ(80V)	75mΩ(150V)	750mΩ(600V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	7311122(1300)	73011122(0007)		
	Accuracy		Dynamic Mode			
	T18 T2/Dro \	0.02ms~300s	Synamic Mode			
	T1&T2(Pro.) T1&T2(Adv.)	0.02ms~300s 0.05ms~300s				
	Resolution					
		1µs				
	Accuracy	1µs+100ppm	5 A/ 05 CA/	40. 44. 54.044		
CCD/CRD	Slew Rate(Pro.)	1mA/µs~5.12A/µs	5mA/μs~25.6A/μs	10mA/μs~51.2A/μs		
	Slew Rate(Adv.)	1mA/μs~1.28A/μs	5mA/μs~6.4A/μs	10mA/μs~12.8A/μs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)	5mA/µs	10mA/µs		
	Resolution	1mA/µs	SITIAVμS	τοπιλίμε		
	Accuracy	5%±10us				
			Measurement 0 450V	0.0001		
	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
	Accuracy	0.015%+0.015%F.S.	0.0404	0.40004		
	Range	0~128A	0~640A	0~1280A		
Current	Resolution	1mA	5mA	10mA		
	Accuracy	0.04%+0.04%F.S.				
	Range	0~1760W	0~8800W	0~17600W		
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz	-			
			Protection			
OVP		88V	165V	660V		
OCP		130.56A	652.8A	1305.6A		
OPP		1812.8W	9064W	18128W		
Over Tempera		70-75°C				
Overvoltage S	Safety Value	110%VF.S.				
Reverse Alarr	m	Yes				
Alarm Tone		Yes				
D:	W 11 B)		Mechanical			
Dimensions(V		423.0x444.0x670.0mm				
Package Dim	ensions(WxHxD)	544.0x741.0x891.0mm				
Unit Weight		100kg				
		122kg				
Unit Weight Shipping Wei	ght					
Shipping Wei	ght		AC Input			
Shipping Wei	ght	100~240Vac	AC Input			
Shipping Wei	ght	50~60Hz	AC Input			
Shipping Wei	ght		AC Input			



MODEL	Voltage	EL600VDC19800W 0~600V			
Rated	Current	0~1440A			
		0~19800W	0.407004	0)/044404	
	Min. Operating Voltage	0.8V@144A	4V@720A Static Mode	8V@1440A	
	Dongo	0.4440		0.44404	
Constant	Range	0~144A	0~720A	0~1440A	
Current Mode	Resolution	2mA	10mA	20mA	
	Accuracy	0.05%+0.05%F.S.	0.450/	0.0001	
Constant	Range	0~80V	0~150V	0~600V	
Voltage Mode	Resolution	0.5mV	1mV	5mV	
Wode	Accuracy	0.025%+0.025%F.S.	0.000014	0.4000014	
Constant	Range	0~1980W	0~9900W	0~19800W	
Power Mode	Resolution	100mW	500mW	1000mW	
wode	Accuracy	0.2%+0.2%F.S.			
Constant	Range	16.7mΩ~166.7Ω(80V)	66.7mΩ~666.7Ω(150V)	666.7mΩ~1333Ω(600V)	
Resistance	Resolution	16.7mΩ(80V)	66.7mΩ(150V)	666.7mΩ(600V)	
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.			
			Dynamic Mode		
	T1&T2(Pro.)	0.02ms~300s			
	T1&T2(Adv.)	0.05ms~300s			
	Resolution	1µs			
	Accuracy	1µs+100ppm			
CCD/CRD	Slew Rate(Pro.)	2mA/μs~5.76A/μs	10mA/μs~28.8A/μs	20mA/μs~57.6A/μs	
CODICIND	Slew Rate(Adv.)	2mA/μs~1.44A/μs	10mA/μs~7.2A/μs	20mA/µs~14.4A/µs	
	Min. Rise Time(Pro.)	20µs(Typical)			
	Min. Rise Time(Adv.)	50µs(Typical)			
	Resolution	2mA/µs	10mA/µs	20mA/µs	
	Accuracy	5%±10us			
			Measurement		
	Range	0~80V	0~150V	0~600V	
Voltage	Resolution	0.5mV	1mV	5mV	
	Accuracy	0.015%+0.015%F.S.			
	Range	0~144A	0~720A	0~1440A	
Current	Resolution	2mA	10mA	20mA	
	Accuracy	0.04%+0.04%F.S.			
	Range	0~1980W	0~9900W	0~19800W	
Power	Resolution	100mW	500mW	1000mW	
	Accuracy	0.1%+0.1%F.S.			
Sampling Fre		500kHz			
			Protection		
OVP		88V	165V	660V	
OCP		146.88A	734.4A	1468.8A	
OPP		2039.4W	10197W	20394W	
Over Tempera	ature	70-75°C			
Overvoltage S		110%VF.S.			
Reverse Alarr	n	Yes			
Alarm Tone		Yes			
			Mechanical		
Dimensions(V	VxHxD)	423.0x444.0x670.0mm			
	ensions(WxHxD)	544.0x741.0x891.0mm			
Unit Weight	/	105.5kg			
Shipping Wei	ght	127.5kg			
		r.ong	AC Input		
		100~240Vac			
Voltage					
Voltage					
Voltage Frequency Power		50~60Hz 700VA			

MODEL		EL600VDC22000W				
	Voltage	0~600V				
	Current	0~1600A				
Rated	Power	0~22000W				
	Min. Operating Voltage	0.8V@160A	4V@800A	8V@1600A		
	The second secon	_	Static Mode	01@1000/1		
0	Range	0~160A	0~800A	0~1600A		
Constant Current	Resolution	2mA	10mA	20mA		
Mode	Accuracy	0.05%+0.05%F.S.	10.121	25.1		
^	Range	0~80V	0~150V	0~600V		
Constant Voltage	Resolution	0.5mV	1mV	5mV		
Mode	Accuracy	0.025%+0.025%F.S.	THIV	Siliv		
0	Range	0~2200W	0~11000W	0~22000W		
Constant Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.	30011144	100011144		
	Range	15mΩ~150Ω(80V)	60mΩ~600Ω(150V)	600mΩ~1200Ω(600V)		
Constant Resistance	Resolution	15mΩ(80V)	60mΩ(150V)	600mΩ(600V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	0011122(130 V)	00011152(000V)		
	Accuracy		Dynamic Mode			
	T19 T2/Dro \	0.02ms~300s	Tynamic Wode			
	T1&T2(Pro.)	0.02ms~300s 0.05ms~300s				
	T1&T2(Adv.)					
	Resolution	1µs				
	Accuracy	1μs+100ppm	404/ 204/	00 4/ 044/		
CCD/CRD	Slew Rate(Pro.)	2mA/µs~6.4A/µs	10mA/µs~32A/µs	20mA/μs~64A/μs		
	Slew Rate(Adv.)	2mA/μs~1.6A/μs	10mA/μs~8A/μs	20mA/μs~16A/μs		
	Min. Rise Time(Pro.)	20µs(Typical) 50µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)	10mA/µs	20 41:		
	Resolution	2mA/µs	ιοπλίμε	20mA/μs		
	Accuracy	5%±10us				
			leasurement			
\	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
	Accuracy	0.015%+0.015%F.S.	0.0004	0.40004		
	Range	0~160A	0~800A	0~1600A		
Current	Resolution	2mA	10mA	20mA		
	Accuracy	0.04%+0.04%F.S.				
_	Range	0~2200W	0~11000W	0~22000W		
Power	Resolution	100mW	500mW	1000mW		
		0.404 0.404=0				
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	Accuracy	500kHz				
	Accuracy	500kHz	Protection			
OVP	Accuracy	500kHz 88V	165V	660V		
OVP OCP	Accuracy	500kHz 88V 163.2A	165V 816A	1632A		
OVP	Accuracy	88V 163.2A 2266W	165V			
OVP OCP OPP Over Temper	Accuracy equency	88V 163.2A 2266W 70-75°C	165V 816A	1632A		
OVP OCP OPP	Accuracy equency	88V 163.2A 2266W	165V 816A	1632A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarr	Accuracy equency ature Safety Value	88V 163.2A 2266W 70-75°C 110%VF.S. Yes	165V 816A	1632A		
OVP OCP OPP Over Temper Overvoltage	Accuracy equency ature Safety Value	88V 163.2A 2266W 70-75°C 110%VF.S. Yes	165V 816A 11330W	1632A		
OVP OCP OPP Over Temper Overvoltage Reverse Alarn Alarm Tone	Accuracy equency ature Safety Value	88V 163.2A 2266W 70-75°C 110%VF.S. Yes	165V 816A	1632A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone	Accuracy equency ature Safety Value m	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes	165V 816A 11330W	1632A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(N Package Dim	Accuracy equency ature Safety Value	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	165V 816A 11330W	1632A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(N Package Dim Unit Weight	Accuracy equency ature Safety Value m WxHxD) ensions(WxHxD)	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg	165V 816A 11330W	1632A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(N Package Dim	Accuracy equency ature Safety Value m WxHxD) ensions(WxHxD)	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	165V 816A 11330W	1632A		
OVP OCP OCP OVer Temper Overvoltage Reverse Alan Alarm Tone Dimensions(t Package Dim Unit Weight Shipping Wei	Accuracy equency ature Safety Value m WxHxD) ensions(WxHxD)	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg	165V 816A 11330W	1632A		
OVP OCP OCP OPP Over Temper Overvoltage ! Reverse Alan Alarm Tone Dimensions(\) Package Dim Unit Weight Shipping Wei	Accuracy equency ature Safety Value m WxHxD) ensions(WxHxD)	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg	165V 816A 11330W	1632A		
OVP OCP OCP OVer Temper Overvoltage Reverse Alan Alarm Tone Dimensions(t Package Dim Unit Weight Shipping Wei	Accuracy equency ature Safety Value m WxHxD) ensions(WxHxD)	88V 163.2A 2266W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg	165V 816A 11330W	1632A		



MODEL		EL600VDC24200W				
	Voltage	0~600V				
Detect	Current	0~1760A				
Rated	Power	0~24200W				
	Min. Operating Voltage	0.8V@176A	4V@880A	8V@1760A		
	3 3 3 3		Static Mode			
0	Range	0~176A	0~880A	0~1760A		
Constant Current	Resolution	2mA	10mA	20mA		
Mode	Accuracy	0.05%+0.05%F.S.	TOTIL	2011/1		
-	Range	0~80V	0~150V	0~600V		
Constant	Resolution					
Voltage Mode	Accuracy	0.5mV	1mV	5mV		
		0.025%+0.025%F.S. 0~2420W	0~12100W	0~24200W		
Constant	Range					
Power Mode	Resolution	100mW	500mW	1000mW		
iviode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	13.6mΩ~136Ω(80V)	55mΩ~550Ω(150V)	550mΩ~1100Ω(600V)		
Resistance	Resolution	13.6mΩ(80V)	55mΩ(150V)	550mΩ(600V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
000/000	Slew Rate(Pro.)	2mA/μs~7.04A/μs	10mA/µs~35.2A/µs	20mA/μs~70.4A/μs		
CCD/CRD	Slew Rate(Adv.)	2mA/μs~1.76A/μs	10mA/µs~8.8A/µs	20mA/μs~17.6A/μs		
	Min. Rise Time(Pro.)	20μs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	2mA/µs	10mA/µs	20mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~80V	0~150V	0~600V		
Voltage	Resolution	0.5mV	1mV	5mV		
vollago	Accuracy	0.015%+0.015%F.S.		- Cilit		
	Range	0~176A	0~880A	0~1760A		
Current	Resolution	2mA	10mA	20mA		
Current	Accuracy	0.04%+0.04%F.S.	TOTIA	ZUIIA		
		0.04%+0.04%F.S. 0~2420W	0~12100W	0~24200W		
_	Range					
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre	quency	500kHz				
			Protection			
OVP		88V	165V	660V		
OCP		179.52A	897.6A	1795.2A		
OPP		2492.6W	12463W	24926W		
Over Tempera		70-75°C				
Overvoltage S	Safety Value	110%VF.S.				
Reverse Alarr	m	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	WxHxD)	423.0x577.0x670.0mm				
Package Dim	ensions(WxHxD)	541.0x861.0x891.0mm				
Unit Weight		134.5kg				
Shipping Wei	ght	158.5kg				
			AC Input			
Voltage		100~240Vac				
Voltage		50 0011-				
Frequency		5U~bUHZ				
Frequency Power		50~60Hz 900VA				

MODEL		EL600VDC26400W		
	Voltage	0~600V		
	Current	0~1920A		
Rated	Power	0~26400W		
	Min. Operating Voltage	0.8V@192A	4V@960A	8V@1920A
	3 3 3	_	Static Mode	116:124
Constant	Range	0~192A	0~960A	0~1920A
Current	Resolution	2mA	10mA	20mA
Mode	Accuracy	0.05%+0.05%F.S.		
Constant	Range	0~80V	0~150V	0~600V
Voltage	Resolution	0.5mV	1mV	5mV
Mode	Accuracy	0.025%+0.025%F.S.		
Constant	Range	0~2640W	0~13200W	0~26400W
Power	Resolution	100mW	500mW	1000mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	12.5mΩ~125Ω(80V)	50mΩ~500Ω(150V)	500mΩ~1000Ω(600V)
Resistance	Resolution	12.5mΩ(80V)	50mΩ(150V)	500mΩ(600V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		0001112(0001)
	,		ynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	2mA/μs~7.68A/μs	10mA/μs~38.4A/μs	20mA/µs~76.8A/µs
CCD/CRD	Slew Rate(Adv.)	2mA/μs~1.92A/μs	10mA/μs~9.6A/μs	20mA/μs~19.2A/μs
	Min. Rise Time(Pro.)	20μs(Typical)	101111111111111111111111111111111111111	20π/μ3 13.2//μ3
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	2mA/µs	10mA/µs	20mA/μs
	Accuracy	5%±10us	Ισπενμο	Συπενμο
	Accuracy		leasurement	
	Range	0~80V	0~150V	0~600V
Voltage	Resolution	0.5mV	1mV	5mV
voltage	Accuracy	0.015%+0.015%F.S.	IIIIV	Silly
	Range	0~192A	0~960A	0~1920A
Current	Resolution	2mA	10mA	20mA
Current	Accuracy	0.04%+0.04%F.S.	TOTILA	ZUIIA
	Accuracy		0. 10000011	
	D			
Dawar	Range	0~2640W	0~13200W	0~26400W
Power	Resolution	100mW	0~13200W 500mW	0~26400W 1000mW
	Resolution Accuracy	100mW 0.1%+0.1%F.S.		
Power Sampling Free	Resolution Accuracy	100mW 0.1%+0.1%F.S. 500kHz	500mW	
Sampling Free	Resolution Accuracy	100mW 0.1%+0.1%F.S. 500kHz	500mW	1000mW
Sampling Free	Resolution Accuracy	100mW 0.1%+0.1%F.S. 500kHz	Frotection 165V	1000mW 660V
Sampling Free	Resolution Accuracy	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A	Frotection 165V 979.2A	1000mW 660V 1958.4A
Sampling Free	Resolution Accuracy quency	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W	Frotection 165V	1000mW 660V
OVP OCP OPP Over Tempera	Resolution Accuracy quency	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C	Frotection 165V 979.2A	1000mW 660V 1958.4A
OVP OCP OPP Over Tempera Overvoltage S	Resolution Accuracy quency ature Safety Value	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S.	Frotection 165V 979.2A	1000mW 660V 1958.4A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Resolution Accuracy quency ature Safety Value	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes	Frotection 165V 979.2A	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Resolution Accuracy quency ature Safety Value	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes	Frotection 165V 979.2A 13596W	1000mW 660V 1958.4A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone	Resolution Accuracy quency ature Safety Value	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes	Frotection 165V 979.2A	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V	Resolution Accuracy quency ature Safety Value m	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes N 423.0x577.0x670.0mm	Frotection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dime	Resolution Accuracy quency ature Safety Value	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm	Frotection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempers Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight	Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	Frotection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Tone Dimensions(V Package Dime	Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	Protection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempers Overvoltage S Reverse Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Weight	Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	Frotection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	Protection 165V 979.2A 13596W	1000mW 660V 1958.4A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package	Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	100mW 0.1%+0.1%F.S. 500kHz 88V 195.84A 2719.2W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	Protection 165V 979.2A 13596W	1000mW 660V 1958.4A



600V Series S	ystem Specifications		Non Linear Mode	
	CL	30uF~50000uF	Non Linear Mode	
	RL	As CR Mode		
Range				
	Ls	0.1uH~16uH 30mΩ~20Ω		
	Rs			
	CL	1uF		
Resolution	RL	As CR Mode		
	Ls	0.1uH		
	Rs	1mΩ		
Battery Voltage		As CV Mode	ttery Discharge Mode	
Current Resolu		As CC Mode		
Record	idon			
		AH/WH 1s~100000s		
Test Time Time Resolutio				
Time Resolutio	П	1s	Dunayam Mada	
Step No.		300 Max.	Program Mode	
Dwell		0.1ms~4000s		
Spec Check				
opec offect		Voltage/Current/Power	Waveform Control/Monitor	
Control/Monitor		Voltage/Current	Waveform Control/Worldon	
Input/Ouput Ra		0~10V		
Voltage Range		0~L range F.S.	0∼M range F.S.	0∼H_range F.S.
Current Range		0~L_range F.S.	0~M_range F.S.	0~H_range F.S.
Accuracy		0.4%F.S.	o M_range r.o.	o Ti_tango T.o.
Resolution				
		4mV		
Bandwidth		20kHz		
Input Impedance	Je	10kΩ	Short Circuit	
Current(CC)		Full reason comment colors	Short Circuit	
		Full range current value	nuar in washing made	
Voltage(CV)	N	Voltage value at the Max po		
Resistance(CR	<i>(</i>)	Min resistance value of CR	Master/Slave	
Parallel Interfac		RJ45	Master/Stave	
Parallel Quantit		20 units 10 units		
Parallel Quantit	ty (Auv.)	TO UITICS	General	
Graphic Displa	NV.	4.3" Color touch LCD	General	
			ry Knob, USB port for transfer and upgra	ding firmware
Operation Key Rack Mount Ha		Yes	y raiob, oob portion transier and upgra-	ung imiwaic
FAN	unulos	Temperature Control		
Interface			rd) CPIP/I AN/Ontional)	
	n Response Time	RS232/RS485/USB(Standa 30ms	itu), GPID/LAIN(Optional)	
Communication	ii Nesponse time		sets), OCP settings (10 sets), OPP setting	ge (10 sets). Default cettings (1 set).
Storage Capac	city	Factory setting (1 set)	setta), OOF settings (10 sets), OFF setting	go (10 sets), Delault settings (1 set),
		. 2211.) 2249 (1 00.)	Environmental	
Operating Tem	perature	0~40°C		
Storage Tempe		-20~80°C		
Temperature Co		100ppm/°C(Typical)		
Relative Humid		10~90%RH		
Altitude	,	<2000m		
, wature			latory Compliance	
Overvoltage Ca	ategory	II		
Protection Deg		I		
Pollution Degre		II		
Input Impedance				
Isolation Voltage		1MΩ(Typical)		
Certificates	,c	CE		
Certificates		OE.		

All specifications are subject to change without notice.

MODEL		EL1200VDC1200W		
	Voltage	0~1200V		
	Current	0~45A		
Rated	Power	0~1200W		
	Min. Operating Voltage	2V@4.5A	10V@22.5A	20V@45A
	wiii. Operating voltage	_	Static Mode	2016437
	Range	0~4.5A	0~22.5A	0~45A
Constant				
Current Mode	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.05%+0.05%F.S.	2.2227	2 (228)
Constant	Range	0~150V	0~600V	0~1200V
Voltage Mode	Resolution	1mV	5mV	10mV
wode	Accuracy	0.025%+0.025%F.S.		
Constant	Range	0~120W	0~600W	0~1200W
Power	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	275mΩ~2750Ω(150V)	1100mΩ~11000Ω(600V)	11000mΩ~22000Ω(1200V)
Resistance	Resolution	275mΩ(150V)	1100mΩ(600V)	11000mΩ(12000V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
		ı	Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	0.1mA/µs~0.45A/µs	0.5mA/μs~1.575A/μs	1mA/μs~3.15A/μs
CCD/CRD	Slew Rate(Adv.)	0.1mA/µs~0.045A/µs	0.5mA/µs~0.225A/µs	1mA/µs~0.45A/µs
	Min. Rise Time(Pro.)	10µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	0.1mA/µs	0.5mA/µs	1mA/µs
	Accuracy	5%±10us	0.0112 0 40	1111/45
	Accuracy		Measurement	
_	Pango	0~150V	0~600V	0~1200V
Valtage	Range Resolution	1mV	5mV	10mV
Voltage			Siliv	IOIIIV
	Accuracy	0.015%+0.015%F.S.	0.00.54	0.454
			0~22.5A	0~45A
	Range	0~4.5A		4 4
Current	Range Resolution	0.1mA	0.5mA	1mA
Current	Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S.		
	Range Resolution Accuracy Range	0.1mA 0.04%+0.06%F.S. 0~120W	0~600W	0~1200W
	Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW		
	Range Resolution Accuracy Range	0.1mA 0.04%+0.06%F.S. 0~120W	0~600W	0~1200W
Power	Range Resolution Accuracy Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW	0~600W 50mW	0~1200W
Power	Range Resolution Accuracy Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S.	0~600W	0~1200W
Power	Range Resolution Accuracy Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S.	0~600W 50mW	0~1200W
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz	0~600W 50mW Protection	0~1200W 100mW
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz	0~600W 50mW Protection 660V	0~1200W 100mW 1320V
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy squency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A	0~600W 50mW Protection 660V 22.95A	0~1200W 100mW 1320V 45.9A
Power Sampling Free OVP OCP OPP Over Temper	Range Resolution Accuracy Range Resolution Accuracy equency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W	0~600W 50mW Protection 660V 22.95A	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S	Range Resolution Accuracy Range Resolution Accuracy squency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C	0~600W 50mW Protection 660V 22.95A	0~1200W 100mW 1320V 45.9A
Power Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alar	Range Resolution Accuracy Range Resolution Accuracy squency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S.	0~600W 50mW Protection 660V 22.95A	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alar	Range Resolution Accuracy Range Resolution Accuracy squency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes	0~600W 50mW Protection 660V 22.95A	0~1200W 100mW 1320V 45.9A
Power Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone	Range Resolution Accuracy Range Resolution Accuracy Iquency Resolution Accuracy Iquency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Free OVP OCP OPP Over Temper Overvoltage Severse Alarm Alarm Tone Dimensions(\)	Range Resolution Accuracy Range Resolution Accuracy Iquency Resolution Accuracy Iquency	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(N Package Dim	Range Resolution Accuracy Range Resolution Accuracy quency ature Safety Value m	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage s Reverse Alarn Alarm Tone Dimensions(\text{\text{V}} Package Dim Unit Weight	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) ensions(WxHxD)	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes 423.0x88.0x610.0mm 665.0x333.0x918.0mm	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage s Reverse Alarn Alarm Tone Dimensions(\text{\text{V}} Package Dim Unit Weight	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) ensions(WxHxD)	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Free OVP OCP OPP Over Temper Overvoltage Severse Alarm Alarm Tone Dimensions(N	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) ensions(WxHxD)	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(t) Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) ensions(WxHxD)	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Tone Dimensions(t) Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) ensions(WxHxD)	0.1mA 0.04%+0.06%F.S. 0~120W 10mW 0.1%+0.1%F.S. 500kHz 165V 4.59A 123.6W 70-75°C 110%VF.S. Yes Yes 423.0x88.0x610.0mm 665.0x333.0x918.0mm 20kg 29kg	0~600W 50mW Protection 660V 22.95A 618W	0~1200W 100mW 1320V 45.9A



MODEL		EL1200VDC2400W		
	Voltage	0~1200V		
D-4-4	Current	0~90A		
Rated	Power	0~2400W		
	Min. Operating Voltage	2V@9A	10V@45A	20V@90A
	, ,		Static Mode	
0	Range	0~9A	0~45A	0~90A
Constant Current	Resolution	0.1mA	0.5mA	1mA
Mode	Accuracy	0.05%+0.05%F.S.	0.0.1.0.1	11101
	Range	0~150V	0~600V	0~1200V
Constant				
Voltage Mode	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S. 0~240W	0.420014/	0~2400W
Constant	Range		0~1200W	
Power	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	137.5mΩ~1375Ω(150V)	550mΩ~5500Ω(600V)	5500mΩ~11000Ω(1200V)
Resistance	Resolution	150mΩ(150V)	600mΩ(600V)	6000mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
		D	ynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	0.1mA/µs~0.9A/µs	0.5mA/µs~3.15A/µs	1mA/μs~6.3A/μs
CCD/CRD	Slew Rate(Adv.)	0.1mA/µs~0.09A/µs	0.5mA/µs~0.45A/µs	1mA/µs~0.9A/µs
	Min. Rise Time(Pro.)	10μs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	0.1mA/µs	0.5mA/µs	1mA/µs
	Accuracy	5%±10us	0.5π/νμο	ΠΙΑΝμο
	Accuracy			
			easurement	0.400014
	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~9A	0~45A	0~90A
Current	Resolution	0.1mA	0.5mA	1mA
	Accuracy	0.04%+0.06%F.S.		
	Range	0~240W	0~1200W	0~2400W
Power	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre	quency	500kHz		
			Protection	
OVP		165V	660V	1320V
OCP		9.18A	45.9A	91.8A
OPP		247.2W	1236W	2472W
Over Tempera	ature	70-75°C		
Overvoltage S		110%VF.S.		
Reverse Alarr		Yes		
Alarm Tone		Yes		
ruariii rono			lechanical	
Dimensions(V	VyHyD)	423.0x88.0x610.0mm		
	ensions(WxHxD)			
	SHOIDHS(VVXITIXU)	665.0x333.0x918.0mm		
Unit Weight		24kg		
Shipping Wei	gnt	33kg	AC house	
			AC Input	
Voltage		100~240Vac		
Frequency		50~60Hz		
		180VA		
Power				

MODEL		EL1200VDC3400W		
	Voltage	0~1200V		
	Current	0~125A		
Rated	Power	0~3400W		
	Min. Operating Voltage	2V@12.5A	10V@62.5A	20V@125A
	The second secon	_	Static Mode	201@1201
Constant	Range	0~12.5A	0~62.5A	0~125A
Current	Resolution	0.2mA	1mA	2mA
Mode	Accuracy	0.05%+0.05%F.S.		
Constant	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
Mode	Accuracy	0.025%+0.025%F.S.		
Constant	Range	0~340W	0~1700W	0~3400W
Power	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	100mΩ~1000Ω(150V)	400mΩ~4000Ω(600V)	4000mΩ~8000Ω(1200V)
Resistance	Resolution	100mΩ(150V)	400mΩ(600V)	4000mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		, ,
	,		Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(110.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	0.2mA/µs~0.625A/µs	1mA/µs~3.125A/µs	2mA/μs~6.25A/μs
CCD/CRD	Slew Rate(Adv.)	0.2mA/µs~0.125A/µs	1mA/µs~0.625A/µs	2mA/µs~1.25A/µs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	0.2mA/µs	1mA/µs	2mA/µs
	Accuracy	5%±10us		
			Measurement	
	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~12.5A	0~62.5A	0~125A
Current	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
		0. 040144	0~1700W	0~3400W
		0~340W		U~3400VV
Power	Range	10mW		
Power	Range Resolution		50mW	100mW
	Range Resolution Accuracy	10mW		
	Range Resolution Accuracy	10mW 0.1%+0.1%F.S.	50mW	
Sampling Fre	Range Resolution Accuracy	10mW 0.1%+0.1%F.S. 500kHz	50mW Protection	100mW
Sampling Fre	Range Resolution Accuracy	10mW 0.1%+0.1%F.S. 500kHz	50mW Protection 660V	100mW
Sampling Fre	Range Resolution Accuracy	10mW 0.1%+0.1%F.S. 500kHz	Frotection 660V 63.75A	100mW 1320V 127.5A
Sampling Free	Range Resolution Accuracy equency	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A	50mW Protection 660V	100mW
Sampling Free	Range Resolution Accuracy equency	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W	Frotection 660V 63.75A	100mW 1320V 127.5A
Sampling Free	Range Resolution Accuracy equency ature Safety Value	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C	Frotection 660V 63.75A	100mW 1320V 127.5A
Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarn	Range Resolution Accuracy equency ature Safety Value	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S.	Frotection 660V 63.75A	100mW 1320V 127.5A
Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarn	Range Resolution Accuracy equency ature Safety Value	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes	Frotection 660V 63.75A	100mW 1320V 127.5A
OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone	Range Resolution Accuracy equency ature Safety Value	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes	Frotection 660V 63.75A 1751W	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone	Range Resolution Accuracy squency ature Safety Value m	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes	Frotection 660V 63.75A 1751W	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(\text{V} Package Dim	Range Resolution Accuracy equency ature Safety Value	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	Frotection 660V 63.75A 1751W	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage 's Reverse Alarn Alarm Tone Dimensions(\text{V} Package Dim Unit Weight	Range Resolution Accuracy squency atture Safety Value m WxHxD) tensions(WxHxD)	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg	Frotection 660V 63.75A 1751W	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage 's Reverse Alarn Alarm Tone Dimensions(\text{V} Package Dim Unit Weight	Range Resolution Accuracy squency atture Safety Value m WxHxD) tensions(WxHxD)	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	Protection 660V 63.75A 1751W Mechanical	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(t Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy squency atture Safety Value m WxHxD) tensions(WxHxD)	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg	Frotection 660V 63.75A 1751W	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(\text{V} Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy squency atture Safety Value m WxHxD) tensions(WxHxD)	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg	Protection 660V 63.75A 1751W Mechanical	100mW 1320V 127.5A
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(t Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy squency atture Safety Value m WxHxD) tensions(WxHxD)	10mW 0.1%+0.1%F.S. 500kHz 165V 12.75A 350.2W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 27kg 36kg	Protection 660V 63.75A 1751W Mechanical	100mW 1320V 127.5A



MODEL		EL1200VDC4400W				
	Voltage	0~1200V				
Rated	Current	0~160A				
raica	Power	0~4400W				
	Min. Operating Voltage	2V@16A	10V@80A	20V@160A		
			Static Mode			
Constant	Range	0~16A	0~80A	0~160A		
Current	Resolution	0.2mA	1mA	2mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~440W	0~2200W	0~4400W		
Power	Resolution	10mW	50mW	100mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	75mΩ~750Ω(150V)	300mΩ~3000Ω(600V)	3000mΩ~6000Ω(1200V)		
Resistance	Resolution	75mΩ(150V)	300mΩ(600V)	3000mΩ(1200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1µs				
	Accuracy	1µs+100ppm				
000/000	Slew Rate(Pro.)	0.2mA/μs~0.8A/μs	1mA/µs~4A/µs	2mA/µs~8A/µs		
CCD/CRD	Slew Rate(Adv.)	0.2mA/μs~0.16A/μs	1mA/μs~0.8A/μs	2mA/μs~1.6A/μs		
	Min. Rise Time(Pro.)	20μs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.2mA/µs	1mA/µs	2mA/µs		
	Accuracy	5%±10us				
			Measurement			
	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
	Accuracy	0.015%+0.015%F.S.				
	Range	0~16A	0~80A	0~160A		
Current	Resolution	0.2mA	1mA	2mA		
	Accuracy	0.04%+0.06%F.S.				
	Range	0~440W	0~2200W	0~4400W		
Power	Resolution	10mW	50mW	100mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre		500kHz				
1 0			Protection			
OVP		165V	660V	1320V		
OCP		16.32A	81.6A	163.2A		
OPP		453.2W	2266W	4532W		
Over Tempera	ature	70-75°C				
Overvoltage S		110%VF.S.				
Reverse Alarr	•	Yes				
Alarm Tone		Yes				
			Mechanical			
Dimensions(V	VxHxD)	423.0x133.0x610.0mm				
	ensions(WxHxD)	665.0x348.0x918.0mm				
Unit Weight	O.I.O.O.IO(TTALIAD)	28.5kg				
Shipping Wei	aht	37.3kg				
C. IIPPING WEI	9	5ong	AC Input			
		100~240Vac	7.6 mput			
Voltage		.50 240 000				
		50~60Hz				
Voltage Frequency Power		50~60Hz 200VA				

MODEL		EL1200VDC5600W		
	Voltage	0~1200V		
	Current	0~210A		
Rated	Power	0~5600W		
	Min. Operating Voltage	2V@21A	10V@105A	20V@210A
	min operating vertage	_	Static Mode	201@210/1
0 1 1	Range	0~21A	0~105A	0~210A
Constant Current	Resolution	0.2mA	1mA	2mA
Mode	Accuracy	0.05%+0.05%F.S.	IIIIA	ZIIIA
-	Range	0~150V	0~600V	0~1200V
Constant	Resolution	1mV	5mV	10mV
Voltage Mode	Accuracy	0.025%+0.025%F.S.	SIIIV	TOHIV
	Range	0.023%+0.023%F.3.	0~2800W	0~5600W
Constant Power		10mW	50mW	100mW
Mode	Resolution	0.2%+0.2%F.S.	Somv	TOOMIVV
	Accuracy		235-0-23000(600)()	00500 47000/4000\/)
Constant	Range	60mΩ~600Ω(150V)	235mΩ~2300Ω(600V)	2350mΩ~4700Ω(1200V)
Resistance Mode	Resolution Accuracy	60mΩ(150V)	235mΩ(600V)	2350mΩ(1200V)
Wiode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	Dimensia Meda	
	T48T0(D)		Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s 0.05ms~300s		
	T1&T2(Adv.)			
	Resolution	1µs		
	Accuracy	1µs+100ppm	477 A / 17 5 O S A / 17	0.44.40.544
CCD/CRD	Slew Rate(Pro.)	0.2mA/μs~1.05A/μs 0.2mA/μs~0.21A/μs	1mA/µs~5.25A/µs 1mA/µs~1.05A/µs	2mA/µs~10.5A/µs
	Slew Rate(Adv.)		IIIIA/μs~1.05A/μs	2mA/µs~2.1A/µs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)	Ann Alice	2mA/µs
	Resolution	0.2mA/µs	1mA/μs	ZIIIA/μs
	Accuracy	5%±10us		
	Range	0~150V	Measurement 0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
voitage		0.015%+0.015%F.S.	Siliv	TOHIV
	Accuracy Range	0~21A	0~105A	0~210A
Current	Resolution	0.2mA	1mA	2mA
Current	Resolution		IIIIA	ZIIIA
	Accuracy			
	Accuracy	0.04%+0.06%F.S.	0.000014/	0. 500014
Dower	Range	0~560W	0~2800W	0~5600W
Power	Range Resolution	0~560W 10mW	0~2800W 50mW	0~5600W 100mW
	Range Resolution Accuracy	0~560W 10mW 0.1%+0.1%F.S.		
Power Sampling Free	Range Resolution Accuracy	0~560W 10mW	50mW	
Sampling Free	Range Resolution Accuracy	0~560W 10mW 0.1%+0.1%F.S. 500kHz	50mW Protection	100mW
Sampling Free	Range Resolution Accuracy	0~560W 10mW 0.1%+0.1%F.S. 500kHz	Frotection 660V	100mW
Sampling Free	Range Resolution Accuracy	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A	Protection 660V 107.1A	100mW 1320V 214.2A
Sampling Free	Range Resolution Accuracy quency	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W	Frotection 660V	100mW
OVP OCP OPP Over Tempera	Range Resolution Accuracy quency	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C	Protection 660V 107.1A	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S	Range Resolution Accuracy quency ature safety Value	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S.	Protection 660V 107.1A	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Range Resolution Accuracy quency ature safety Value	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes	Protection 660V 107.1A	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S	Range Resolution Accuracy quency ature safety Value	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes	50mW Protection 660V 107.1A 2884W	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone	Range Resolution Accuracy quency ature safety Value	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes	Protection 660V 107.1A	100mW 1320V 214.2A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V	Range Resolution Accuracy quency sature Safety Value m	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes	50mW Protection 660V 107.1A 2884W	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime	Range Resolution Accuracy quency ature safety Value	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	50mW Protection 660V 107.1A 2884W	100mW 1320V 214.2A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight	Range Resolution Accuracy quency atture Safety Value n VxHxD) ensions(WxHxD)	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 32.5kg	50mW Protection 660V 107.1A 2884W	100mW 1320V 214.2A
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime	Range Resolution Accuracy quency atture Safety Value n VxHxD) ensions(WxHxD)	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm	Protection 660V 107.1A 2884W	100mW 1320V 214.2A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight	Range Resolution Accuracy quency atture Safety Value n VxHxD) ensions(WxHxD)	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 32.5kg 41.3kg	50mW Protection 660V 107.1A 2884W	100mW 1320V 214.2A
Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Range Resolution Accuracy quency atture Safety Value n VxHxD) ensions(WxHxD)	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 32.5kg 41.3kg	Protection 660V 107.1A 2884W	100mW 1320V 214.2A
Sampling Free OVP OCP OPP Over Tempers Overvoltage S Reverse Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight	Range Resolution Accuracy quency atture Safety Value n VxHxD) ensions(WxHxD)	0~560W 10mW 0.1%+0.1%F.S. 500kHz 165V 21.42A 576.8W 70-75°C 110%VF.S. Yes Yes 423.0x133.0x610.0mm 665.0x348.0x918.0mm 32.5kg 41.3kg	Protection 660V 107.1A 2884W	100mW 1320V 214.2A



MODEL		EL1200VDC6600W		
	Voltage	0~1200V		
	Current	0~240A		
Rated	Power	0~6600W		
	Min. Operating Voltage	2V@24A	10V@120A	20V@240A
			Static Mode	
Constant	Range	0~24A	0~120A	0~240A
Current	Resolution	0.2mA	1mA	2mA
Mode	Accuracy	0.05%+0.05%F.S.		
Constant	Range	0~150V	0~600V	0~1200V
Voltage Mode	Resolution	1mV	5mV	10mV
Mode	Accuracy	0.025%+0.025%F.S.	0.000014	0.000014
Constant	Range	0~660W	0~3300W	0~6600W
Power Mode	Resolution	10mW	50mW	100mW
Mode	Accuracy	0.2%+0.2%F.S.	000 0 00000 (000) 0	
Constant	Range	50mΩ~500Ω(150V)	200mΩ~2000Ω(600V)	2000mΩ~4000Ω(1200V)
Resistance Mode	Resolution	50mΩ(150V)	200mΩ(600V)	2000mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	Dunamia Mada	
	T18T2/Pro \	0.02mc=200c	Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.) Resolution	0.05ms~300s		
	Accuracy	1µs		
	,	1μs+100ppm	Amakin Cakin	0. 1/. 401/
CCD/CRD	Slew Rate(Pro.)	0.2mA/μs~1.2A/μs 0.2mA/μs~0.24A/μs	1mA/μs~6A/μs 1mA/μs~1.2A/μs	2mA/µs~12A/µs 2mA/µs~2.4A/µs
	Slew Rate(Adv.) Min. Rise Time(Pro.)		ΠΠΑνμο-1.2Ανμο	2111A/µs~2.4A/µs
		20µs(Typical)		
	Min. Rise Time(Adv.) Resolution	50μs(Typical) 0.2mA/μs	1mA/µs	2mA/µs
	Accuracy	5%±10us	ΠΙΑΥμο	ΣΠΡΟμδ
	Accuracy	5%±10us	Measurement	
	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~24A	0~120A	0~240A
Current	Resolution	0.2mA	1mA	2mA
	Accuracy	0.04%+0.06%F.S.		
	Range	0~660W	0~3300W	0~6600W
Power	Resolution	10mW	50mW	100mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre		500kHz		
			Protection	
OVP		165V	660V	1320V
OCP		24.48A	122.4A	244.8A
OPP		679.8W	3399W	6798W
Over Tempera	ature	70-75℃		
Overvoltage S	Safety Value	110%VF.S.		
Reverse Alarr	m	Yes		
Alarm Tone		Yes		
D:			Mechanical	
Dimensions(V		423.0x177.0x610.0mm		
_	ensions(WxHxD)	665.0x392.0x918.0mm		
Unit Weight	aht	38kg		
Shipping Wei	gnt	47kg	AC Input	
Voltage		100~240Vac	Ao iliput	
Frequency		50~60Hz		
Power		250VA		

MODEL		EL1200VDC8800W				
	Voltage	0~1200V				
	Current	0~320A				
Rated	Power	0~8800W				
	Min. Operating Voltage	2V@32A	10V@160A	20V@320A		
	органия голица	_	Static Mode	201 @ 02.01		
0	Range	0~32A	0~160A	0~320A		
Constant Current	Resolution	0.4mA	2mA	4mA		
Mode	Accuracy	0.05%+0.05%F.S.	2.1.0 (
0	Range	0~150V	0~600V	0~1200V		
Constant Voltage	Resolution	1mV	5mV	10mV		
Mode	Accuracy	0.025%+0.025%F.S.	Siliv	101117		
	Range	0~880W	0~4400W	0~8800W		
Constant Power	Resolution	20mW	100mW	200mW		
Mode	Accuracy	0.2%+0.2%F.S.	10011111	20011100		
	Range	37.5mΩ~375Ω(150V)	150mΩ~1500Ω(600V)	1500mΩ~3000Ω(1200V)		
Constant Resistance	Resolution	37.5mΩ(150V)	150mΩ(600V)	1500mΩ(1200V)		
Mode	Accuracy		13011122(000 V)	13001112(12000)		
	7 locuracy	Vin/Rset*(0.2%)+0.2% IF.S.	Dynamic Mode			
	T18 T2/Dro \	0.02ms~300s	Synamic Mode			
	T1&T2(Pro.)	0.02ms~300s 0.05ms~300s				
	T1&T2(Adv.)					
	Resolution	1µs				
	Accuracy	1µs+100ppm 0.4mA/µs~1.28A/µs	2mA/uo-6 4A/us	Am A lun 12 0 A lun		
CCD/CRD	Slew Rate(Pro.)	0.4mA/μs~1.28A/μs 0.4mA/μs~0.32A/μs	2mA/μs~6.4A/μs	4mA/µs~12.8A/µs		
	Slew Rate(Adv.)		2mA/μs~1.6A/μs	4mA/μs~3.2A/μs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)	2mA/µs	A A /		
	Resolution	0.4mA/µs	ZITIΑVμS	4mA/μs		
	Accuracy	5%±10us				
			Measurement	0.40001/		
V/ II	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
	Accuracy	0.015%+0.015%F.S.	0.4004	0.0004		
	Range	0~32A	0~160A	0~320A		
Current	Resolution	0.4mA	2mA	4mA		
		0.04%+0.06%F.S.				
	Accuracy					
	Range	0~880W	0~4400W	0~8800W		
Power	Range Resolution	0~880W 20mW	0~4400W 100mW	0~8800W 200mW		
	Range Resolution Accuracy	0~880W 20mW 0.1%+0.1%F.S.				
Power Sampling Fre	Range Resolution Accuracy	0~880W 20mW	100mW			
Sampling Fre	Range Resolution Accuracy	0~880W 20mW 0.1%+0.1%F.S. 500kHz	100mW	200mW		
Sampling Fre	Range Resolution Accuracy	0~880W 20mW 0.1%+0.1%F.S. 500kHz	Protection 660V	200mW		
Sampling Fre	Range Resolution Accuracy	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A	Protection 660V 163.2A	200mW 1320V 326.4A		
Sampling Fre	Range Resolution Accuracy	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W	Protection 660V	200mW		
OVP OCP OPP Over Temper	Range Resolution Accuracy quency	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C	Protection 660V 163.2A	200mW 1320V 326.4A		
Sampling Free	Range Resolution Accuracy quency	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W	Protection 660V 163.2A	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alam	Range Resolution Accuracy quency ature Safety Value	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes	Protection 660V 163.2A	200mW 1320V 326.4A		
Sampling Free	Range Resolution Accuracy quency ature Safety Value	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes	Protection 660V 163.2A 4532W	200mW 1320V 326.4A		
OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone	Range Resolution Accuracy quency ature Safety Value	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes	Protection 660V 163.2A	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alam Alarm Tone Dimensions(V	Range Resolution Accuracy quency ature Safety Value m	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes	Protection 660V 163.2A 4532W	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(V Package Dim	Range Resolution Accuracy quency ature Safety Value	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm	Protection 660V 163.2A 4532W	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage \$ Reverse Alarn Alarm Tone Dimensions(\(\) Package Dim Unit Weight	Range Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg	Protection 660V 163.2A 4532W	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(V Package Dim	Range Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm	Protection 660V 163.2A 4532W Mechanical	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg	Protection 660V 163.2A 4532W	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg	Protection 660V 163.2A 4532W Mechanical	200mW 1320V 326.4A		
Sampling Free OVP OCP OPP Over Temper Overvoltage S Reverse Alarn Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy quency ature Safety Value m WxHxD) ensions(WxHxD)	0~880W 20mW 0.1%+0.1%F.S. 500kHz 165V 32.64A 906.4W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 61.5kg 81.5kg	Protection 660V 163.2A 4532W Mechanical	200mW 1320V 326.4A		



MODEL		EL1200VDC11000W		
	Voltage	0~1200V		
Detect	Current	0~400A		
Rated	Power	0~11000W		
	Min. Operating Voltage	2V@40A	10V@200A	20V@400A
			Static Mode	
Constant	Range	0~40A	0~200A	0~400A
Current	Resolution	0.4mA	2mA	4mA
Mode	Accuracy	0.05%+0.05%F.S.		
Constant	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
Mode	Accuracy	0.025%+0.025%F.S.		
Constant	Range	0~1100W	0~5500W	0~11000W
Power Mode	Resolution	20mW	100mW	200mW
Mode	Accuracy	0.2%+0.2%F.S.	100 0 10000/000/0	
Constant Resistance	Range	30mΩ~300Ω(150V)	120mΩ~1200Ω(600V)	1200mΩ~2400Ω(1200V)
Resistance Mode	Resolution	30mΩ(150V)	120mΩ(600V)	1200mΩ(1200V)
Wode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	Dunamia Mada	
	T18T2/Pro \	0.02ms~300s	Dynamic Mode	
	T1&T2(Pro.) T1&T2(Adv.)	0.02ms~300s 0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
	Slew Rate(Pro.)	0.4mA/μs~1.6A/μs	2mA/µs~8A/µs	4mA/µs~16A/µs
CCD/CRD	Slew Rate(Adv.)	0.4mA/μs~0.4A/μs	2mA/µs~2A/µs	4mA/μs~4A/μs
	Min. Rise Time(Pro.)	20μs(Typical)	2117 VPO 27 VPO	TITIO PO TO PO
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	0.4mA/µs	2mA/µs	4mA/µs
	Accuracy	5%±10us		
	ricourdoy	07021000	Measurement	
	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
	Range	0~40A	0~200A	0~400A
Current	Resolution	0.4mA	2mA	4mA
	Accuracy	0.04%+0.06%F.S.		
	Range	0~1100W	0~5500W	0~11000W
Power	Resolution	20mW	100mW	200mW
	Accuracy	0.1%+0.1%F.S.		
Sampling Fre	quency	500kHz		
			Protection	
OVP		165V	660V	1320V
OCP		40.8A	204A	408A
OPP		1133W	5665W	11330W
Over Tempera		70-75°C		
Overvoltage S	Safety Value	110%VF.S.		
Reverse Alarr	n	Yes		
Alarm Tone		Yes		
Dimension (1)	Mod In D	100.0.044.0.070.0	Mechanical	
Dimensions(V		423.0x311.0x670.0mm		
_	ensions(WxHxD)	541.0x591.0x891.0mm		
Unit Weight	aht	67kg		
Shipping Wei	yııı	87kg	AC Input	
Voltage		100~240Vac		
Frequency		50~60Hz		
Power		450VA		

		EL1200VDC13200W		
	Voltage	0~1200V		
	Current	0~480A		
Rated	Power	0~13200W		
	Min. Operating Voltage	2V@48A	10V@240A	20V@480A
	mini operating vertage	216401	Static Mode	201@400/1
	Range	0~48A	0~240A	0~480A
Constant Current	Resolution	0.4mA	2mA	4mA
Mode	Accuracy	0.05%+0.05%F.S.	ZIIIA	4111A
			0~600V	0~1200V
Constant	Range Resolution	0~150V		
Voltage Mode		1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S. 0~1320W	0~6600W	0~13200W
Constant	Range			
Power Mode	Resolution	40mW	200mW	400mW
woue	Accuracy	0.2%+0.2%F.S.		
Constant	Range	25mΩ~250Ω(150V)	100mΩ~1000Ω(600V)	1000mΩ~2000Ω(1200V)
Resistance	Resolution	25mΩ(150V)	100mΩ(600V)	1000mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
			Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1μs+100ppm		
CCD/CRD	Slew Rate(Pro.)	0.4mA/μs~1.6A/μs	2mA/µs~8A/µs	4mA/μs~16A/μs
CCD/CKD	Slew Rate(Adv.)	0.4mA/μs~0.48A/μs	2mA/µs~2.4A/µs	4mA/μs~4.8A/μs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50μs(Typical)		
	Resolution	0.4mA/µs	2mA/µs	4mA/µs
	Accuracy	5%±10us		
			Measurement	
	Range	0~150V	0~600V	0~1200V
Voltage	Resolution	1mV	5mV	10mV
	Accuracy	0.015%+0.015%F.S.		
	7 100 di doj	0.404	0~240A	0~480A
	Range	0~48A		
Current		0~48A 0.4mA	2mA	4mA
Current	Range		2mA	4mA
Current	Range Resolution Accuracy	0.4mA	2mA 0~6600W	4mA 0~13200W
	Range Resolution	0.4mA 0.04%+0.06%F.S.		
	Range Resolution Accuracy Range Resolution	0.4mA 0.04%+0.06%F.S. 0~1320W	0~6600W	0~13200W
Power	Range Resolution Accuracy Range Resolution Accuracy	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW	0~6600W	0~13200W
Power	Range Resolution Accuracy Range Resolution Accuracy	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S.	0~6600W	0~13200W
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0~6600W 200mW Protection	0~13200W 400mW
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz	0~6600W 200mW Protection 660V	0~13200W 400mW 1320V
Power Sampling Fre	Range Resolution Accuracy Range Resolution Accuracy	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A	0~6600W 200mW Protection 660V 244.8A	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP	Range Resolution Accuracy Range Resolution Accuracy squency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W	0~6600W 200mW Protection 660V	0~13200W 400mW 1320V
Power Sampling Fre OVP OCP OPP Over Temper.	Range Resolution Accuracy Range Resolution Accuracy equency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A	0~6600W 200mW Protection 660V 244.8A	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage \$	Range Resolution Accuracy Range Resolution Accuracy squency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S.	0~6600W 200mW Protection 660V 244.8A	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alam	Range Resolution Accuracy Range Resolution Accuracy squency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes	0~6600W 200mW Protection 660V 244.8A	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alam	Range Resolution Accuracy Range Resolution Accuracy squency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S.	0~6600W 200mW Protection 660V 244.8A	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarr Alarm Tone	Range Resolution Accuracy Range Resolution Accuracy quency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes	0~6600W 200mW Protection 660V 244.8A 6798W	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper. Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes Yes	0~6600W 200mW Protection 660V 244.8A 6798W	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim	Range Resolution Accuracy Range Resolution Accuracy quency	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm	0~6600W 200mW Protection 660V 244.8A 6798W	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dim Unit Weight	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) rensions(WxHxD)	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg	0~6600W 200mW Protection 660V 244.8A 6798W	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper Overvoltage S Reverse Alam Alarm Tone Dimensions(V Package Dim Unit Weight	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) rensions(WxHxD)	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm	0~6600W 200mW Protection 660V 244.8A 6798W Mechanical	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper. Overvoltage \$ Reverse Alarm Tone Dimensions(\(\) Package Dim Unit Weight Shipping Wei	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) rensions(WxHxD)	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0~6600W 200mW Protection 660V 244.8A 6798W	0~13200W 400mW 1320V 489.6A
Power Sampling Fre OVP OCP OPP Over Temper. Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(\(\) Package Dim Unit Weight Shipping Wei Voltage	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) rensions(WxHxD)	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0~6600W 200mW Protection 660V 244.8A 6798W Mechanical	0~13200W 400mW 1320V 489.6A
Current Power Sampling Fre OVP OCP OPP Over Temper. Overvoltage S Reverse Alan Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage Frequency Power	Range Resolution Accuracy Range Resolution Accuracy rquency ature Safety Value m WxHxD) rensions(WxHxD)	0.4mA 0.04%+0.06%F.S. 0~1320W 40mW 0.1%+0.1%F.S. 500kHz 165V 48.96A 1359.6W 70-75°C 110%VF.S. Yes Yes 423.0x311.0x670.0mm 541.0x591.0x891.0mm 72.5kg 92.5kg	0~6600W 200mW Protection 660V 244.8A 6798W Mechanical	0~13200W 400mW 1320V 489.6A



MODEL	17.16	EL1200VDC15400W				
	Voltage	0~1200V				
Rated	Current	0~560A				
	Power	0~15400W				
	Min. Operating Voltage	2V@56A	10V@280A	20V@560A		
			Static Mode			
Constant	Range	0~56A	0~280A	0~560A		
Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~1540W	0~7700W	0~15400W		
Power	Resolution	40mW	200mW	400mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	21mΩ~210Ω(150V)	85mΩ~850Ω(600V)	850mΩ~1700Ω(1200V)		
Resistance	Resolution	21mΩ(150V)	85mΩ(600V)	850mΩ(1200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
		D	ynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1μs				
	Accuracy	1µs+100ppm				
000/000	Slew Rate(Pro.)	0.5mA/μs~1.87A/μs	2mA/µs~9.3A/µs	5mA/μs~18.7A/μs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.56A/μs	2mA/µs~2.8A/µs	5mA/μs~5.6A/μs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us				
		М	easurement			
	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
-	Accuracy	0.015%+0.015%F.S.				
	Range	0~56A	0~280A	0~560A		
Current	Resolution	0.5mA	2mA	5mA		
	Accuracy	0.04%+0.06%F.S.				
	Range	0~1540W	0~7700W	0~15400W		
Power	Resolution	40mW	200mW	400mW		
	Accuracy	0.1%+0.1%F.S.	250			
Sampling Fre		500kHz				
р д	4		Protection			
		165V	660V	1320V		
OVP			285.6A	571.2A		
		57.12A				
OCP		57.12A 1586.2W				
OCP OPP	ature	1586.2W	7931W	15862W		
OCP OPP Over Tempera		1586.2W 70-75°C				
OCP OPP Over Tempera Overvoltage S	Safety Value	1586.2W 70-75°C 110%VF.S.				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	1586.2W 70-75°C 110%VF.S. Yes				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	1586.2W 70-75°C 110%VF.S. Yes	7931W			
OCP OPP Over Tempers Overvoltage S Reverse Alarr Alarm Tone	Safety Value n	1586.2W 70-75°C 110%VF.S. Yes Yes				
OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V	Safety Value n WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm	7931W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim	Safety Value n	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm	7931W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight	n WxHxD) ensions(WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm 94.5kg	7931W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight	n WxHxD) ensions(WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm 94.5kg 116.5kg	7931W			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	n WxHxD) ensions(WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm 94.5kg 116.5kg	7931W			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	n WxHxD) ensions(WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm 94.5kg 116.5kg	7931W			
OVP OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei Voltage Frequency Power	n WxHxD) ensions(WxHxD)	1586.2W 70-75°C 110%VF.S. Yes Yes M 423.0x444.0x670.0mm 544.0x741.0x891.0mm 94.5kg 116.5kg	7931W			

MODEL		EL1200VDC17600W				
	Voltage	0~1200V				
	Current	0~640A				
Rated	Power	0~17600W				
	Min. Operating Voltage	2V@64A	10V@320A	20V@640A		
	wiiii. Operating voltage	_	Static Mode	201@040A		
0 1 1	Range	0~64A	0~320A	0~640A		
Constant Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.				
0 1 1	Range	0~150V	0~600V	0~1200V		
Constant Voltage	Resolution	1mV	5mV	10mV		
Mode	Accuracy	0.025%+0.025%F.S.	Siliv	101114		
0	Range	0~1760W	0~8800W	0~17600W		
Constant Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.				
	Range	18.7mΩ~187Ω(150V)	75mΩ~750Ω(600V)	750mΩ~1500Ω(1200V)		
Constant Resistance	Resolution	18.7mΩ(150V)	75mΩ(600V)	750mΩ(1200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.	7 0.1.12(000 1)	7001112(12000)		
	ricouracy		Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1μs				
	Accuracy	1μs+100ppm				
	Slew Rate(Pro.)	0.5mA/μs~2.1A/μs	2mA/μs~10.7A/μs	5mA/µs~21.3A/µs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/µs~0.64A/µs	2mA/μs~3.2A/μs	5mA/µs~6.4A/µs		
	Min. Rise Time(Pro.)	20μs(Typical)	2111 0 45 0.27 0 45	ЗП <i>Р</i> (µ3 0.4 <i>P</i> (µ3		
	Min. Rise Time(Adv.)	50μs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us	Σπιν μο	3ΠΡΟμ3		
	Accuracy		Measurement			
	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
voltage	Accuracy	0.015%+0.015%F.S.		101117		
	Range	0~64A	0~320A	0~640A		
	rungo	0.5mA	2mA	5mA		
Current	Resolution		21101			
Current	Resolution					
Current	Accuracy	0.04%+0.06%F.S.	0~8800W	0~17600W		
	Accuracy Range	0.04%+0.06%F.S. 0~1760W	0~8800W	0~17600W		
Current	Accuracy Range Resolution	0.04%+0.06%F.S. 0~1760W 100mW	0~8800W 500mW	0~17600W 1000mW		
Power	Accuracy Range Resolution Accuracy	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S.				
	Accuracy Range Resolution Accuracy	0.04%+0.06%F.S. 0~1760W 100mW	500mW			
Power Sampling Free	Accuracy Range Resolution Accuracy	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz	500mW	1000mW		
Power Sampling Free	Accuracy Range Resolution Accuracy	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz	500mW Protection 660V	1000mW		
Power Sampling Free	Accuracy Range Resolution Accuracy	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz	Frotection 660V 326.4A	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP	Accuracy Range Resolution Accuracy quency	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W	500mW Protection 660V	1000mW		
Power Sampling Free OVP OCP OPP Over Tempera	Accuracy Range Resolution Accuracy quency	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz	Frotection 660V 326.4A	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Accuracy Range Resolution Accuracy quency ature Safety Value	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S.	Frotection 660V 326.4A	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Accuracy Range Resolution Accuracy quency ature Safety Value	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C	Frotection 660V 326.4A	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Accuracy Range Resolution Accuracy quency ature Safety Value	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes	Frotection 660V 326.4A	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone	Accuracy Range Resolution Accuracy quency ature Safety Value	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes	500mW Protection 660V 326.4A 9064W	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(M	Accuracy Range Resolution Accuracy quency ature Safety Value m	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes	500mW Protection 660V 326.4A 9064W	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime	Accuracy Range Resolution Accuracy quency ature Safety Value	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	500mW Protection 660V 326.4A 9064W	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime Unit Weight	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg	500mW Protection 660V 326.4A 9064W	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	500mW Protection 660V 326.4A 9064W Mechanical	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(W Package Dime Unit Weight Shipping Weight	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	500mW Protection 660V 326.4A 9064W	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime Unit Weight Shipping Weight Voltage	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	500mW Protection 660V 326.4A 9064W Mechanical	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime Unit Weight Shipping Weight Voltage Frequency	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes 100~240Vac 50~60Hz	500mW Protection 660V 326.4A 9064W Mechanical	1000mW 1320V 652.8A		
Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(W Package Dime Unit Weight Shipping Weight Voltage	Accuracy Range Resolution Accuracy quency atture Safety Value m WxHxD) ensions(WxHxD)	0.04%+0.06%F.S. 0~1760W 100mW 0.1%+0.1%F.S. 500kHz 165V 65.28A 1812.8W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x444.0x670.0mm 544.0x741.0x891.0mm 100kg 122kg	500mW Protection 660V 326.4A 9064W Mechanical	1000mW 1320V 652.8A		



MODEL	Veltere	EL1200VDC19800W				
	Voltage	0~1200V				
Rated	Current	0~720A				
	Power	0~19800W				
	Min. Operating Voltage	2V@72A	10V@360A	20V@720A		
			Static Mode			
Constant	Range	0~72A	0~360A	0~720A		
Current	Resolution	0.5mA	2mA	5mA		
Mode	Accuracy	0.05%+0.05%F.S.				
Constant	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
Mode	Accuracy	0.025%+0.025%F.S.				
Constant	Range	0~1980W	0~9900W	0~19800W		
Power	Resolution	100mW	500mW	1000mW		
Mode	Accuracy	0.2%+0.2%F.S.				
Constant	Range	16.7mΩ~166.7Ω(150V)	66.7mΩ~666Ω(600V)	666.7mΩ~1333Ω(1200V)		
Resistance	Resolution	16.7mΩ(150V)	66.7mΩ(600V)	666.7mΩ(1200V)		
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.				
			Dynamic Mode			
	T1&T2(Pro.)	0.02ms~300s				
	T1&T2(Adv.)	0.05ms~300s				
	Resolution	1μs				
	Accuracy	1µs+100ppm				
000/000	Slew Rate(Pro.)	0.5mA/μs~2.4A/μs	2mA/µs~12A/µs	5mA/µs~24A/µs		
CCD/CRD	Slew Rate(Adv.)	0.5mA/μs~0.72A/μs	2mA/µs~3.6A/µs	5mA/μs~7.2A/μs		
	Min. Rise Time(Pro.)	20µs(Typical)				
	Min. Rise Time(Adv.)	50µs(Typical)				
	Resolution	0.5mA/µs	2mA/µs	5mA/µs		
	Accuracy	5%±10us				
		N	leasurement			
	Range	0~150V	0~600V	0~1200V		
Voltage	Resolution	1mV	5mV	10mV		
-	Accuracy	0.015%+0.015%F.S.				
	Range	0~72A	0~360A	0~720A		
Current	Resolution	0.5mA	2mA	5mA		
	Accuracy	0.04%+0.06%F.S.				
	Range	0~1980W	0~9900W	0~19800W		
Power	Resolution	100mW	500mW	1000mW		
	Accuracy	0.1%+0.1%F.S.				
Sampling Fre		500kHz				
1 5	, ,		Protection			
		165V	660V	1320V		
OVP						
		73.44A	367.2A	/34.4A		
OCP		73.44A 2039.4W	367.2A 10197W	734.4A 20394W		
OCP OPP	afura	2039.4W	367.2A 10197W	734.4A 20394W		
OCP OPP Over Tempera		2039.4W 70-75°C				
OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	2039.4W 70-75°C 110%VF.S.				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	2039.4W 70-75°C 110%VF.S. Yes				
OCP OPP Over Tempera Overvoltage S Reverse Alarr	Safety Value	2039.4W 70-75°C 110%VF.S. Yes	10197W			
OCP OPP Over Tempers Overvoltage S Reverse Alarr Alarm Tone	Safety Value m	2039.4W 70-75°C 110%VF.S. Yes				
OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V	Safety Value n WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm	10197W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim	Safety Value m	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	10197W			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight	MXHxD) ensions(WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 105.5kg	10197W			
OCP OPP Over Tempera Overvoltage \$ Reverse Alarm Alarm Tone Dimensions(V	MXHxD) ensions(WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm	10197W Mechanical			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 105.5kg 127.5kg	10197W			
OCP OPP Over Temper: Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight Shipping Wei	MXHxD) ensions(WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 105.5kg 127.5kg	10197W Mechanical			
OCP OPP Over Tempers Overvoltage \$ Reverse Alarr Alarm Tone Dimensions(V Package Dim Unit Weight	MXHxD) ensions(WxHxD)	2039.4W 70-75°C 110%VF.S. Yes Yes 423.0x444.0x670.0mm 544.0x741.0x891.0mm 105.5kg 127.5kg	10197W Mechanical			

MODEL		EL1200VDC22000W		
	Voltage	0~1200V		
	Current	0~800A		
Rated	Power	0~22000W		
			101/@4004	201/@8004
	Min. Operating Voltage	2V@80A	10V@400A atic Mode	20V@800A
	Range	0~80A	0~400A	0~800A
Constant				
Current Mode	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.	0.0007	0.40001/
Constant	Range	0~150V	0~600V	0~1200V
Voltage Mode	Resolution	1mV	5mV	10mV
	Accuracy	0.025%+0.025%F.S.	0.44000\\	0.0000014
Constant	Range	0~2200W	0~11000W	0~22000W
Power Mode	Resolution	100mW	500mW	1000mW
Wode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	15mΩ~150Ω(150V)	60mΩ~600Ω(600V)	600mΩ~1200Ω(1200V)
Resistance Mode	Resolution	15mΩ(150V)	60mΩ(600V)	600mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
	TARTO(D.)	·	namic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1µs+100ppm		
CCD/CRD	Slew Rate(Pro.)	1mA/μs~2.7A/μs	5mA/μs~13.3A/μs	10mA/μs~26.7A/μs
	Slew Rate(Adv.)	1mA/μs~0.8A/μs	5mA/μs~4A/μs	10mA/μs~8A/μs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	1mA/µs	5mA/µs	10mA/µs
	Accuracy	5%±10us		
	-		surement	2 /222/
	Range	0~150V	0~600V	0~1200V
\/altaga		1mV	5mV	10mV
Voltage	Resolution			
Voltage	Accuracy	0.015%+0.015%F.S.	0 1001	
	Accuracy Range	0~80A	0~400A	0~800A
Voltage Current	Accuracy Range Resolution	0~80A 1mA	0~400A 5mA	0~800A 10mA
	Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F.S.	5mA	10mA
Current	Accuracy Range Resolution Accuracy Range	0~80A 1mA 0.04%+0.06%F.S. 0~2200W	5mA 0~11000W	10mA 0~22000W
Current	Accuracy Range Resolution Accuracy Range Resolution	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW	5mA	10mA
Current	Accuracy Range Resolution Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S.	5mA 0~11000W	10mA 0~22000W
Current	Accuracy Range Resolution Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz	5mA 0-11000W 500mW	10mA 0~22000W
Current Power Sampling Free	Accuracy Range Resolution Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz	5mA 0-11000W 500mW otection	10mA 0~22000W 1000mW
Current Power Sampling Free	Accuracy Range Resolution Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F,S. 0~2200W 100mW 0.1%+0.1%F,S. 500kHz	5mA 0-11000W 500mW otection 660V	10mA 0~22000W 1000mW
Current Power Sampling Free	Accuracy Range Resolution Accuracy Range Resolution Accuracy	0~80A 1mA 0.04%+0.06%F,S. 0~2200W 100mW 0.1%+0.1%F,S. 500kHz	5mA 0-11000W 500mW otection 660V 408A	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0-80A 1mA 0.04%+0.06%F,S. 0-2200W 100mW 0.1%+0.1%F,S. 500kHz Pt 165V 81.6A 2266W	5mA 0-11000W 500mW otection 660V	10mA 0~22000W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pt 165V 81.6A 2266W 70-75°C	5mA 0-11000W 500mW otection 660V 408A	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~80A 1mA 0.04%+0.06%F,S. 0~2200W 100mW 0.1%+0.1%F,S. 500kHz Pt 165V 81.6A 2266W 70-75°C 110%VF,S.	5mA 0-11000W 500mW otection 660V 408A	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarn	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes	5mA 0-11000W 500mW otection 660V 408A	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarn	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pt 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes	5mA 0~11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes	5mA 0-11000W 500mW otection 660V 408A	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency ature Safety Value m	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Med 423.0x577.0x670.0mm	5mA 0~11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions)	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Me 423.0x577.0x670.0mm 541.0x861.0x891.0mm	5mA 0~11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions) Unit Weight	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Med 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg	5mA 0~11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions)	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0-80A 1mA 0.04%+0.06%F.S. 0-2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Met 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg	5mA 0-11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions) Unit Weight Shipping Weight	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Med 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg	5mA 0~11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions) Unit Weight Shipping Weight Voltage	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Med 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg At 100~240Vac	5mA 0-11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Fred OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Tone Dimensions(V Package Dimensions) Unit Weight Shipping Weight Voltage Frequency	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Met 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg At 100~240Vac 50~60Hz	5mA 0-11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarr Alarm Tone Dimensions(V Package Dimensions(V Package Dimensions(V Voltage	Accuracy Range Resolution Accuracy Range Resolution Accuracy quency quency atture Safety Value m WxHxD) tensions(WxHxD)	0~80A 1mA 0.04%+0.06%F.S. 0~2200W 100mW 0.1%+0.1%F.S. 500kHz Pr 165V 81.6A 2266W 70-75°C 110%VF.S. Yes Yes Med 423.0x577.0x670.0mm 541.0x861.0x891.0mm 129kg 153kg At 100~240Vac	5mA 0-11000W 500mW otection 660V 408A 11330W	10mA 0~22000W 1000mW 1320V 816A



MODEL		EL1200VDC24200W			
	Voltage	0~1200V			
Rated	Current	0~880A			
latou	Power	0~24200W			
	Min. Operating Voltage	2V@88A	10V@440A	20V@880A	
			Static Mode		
Constant	Range	0~88A	0~440A	0~880A	
Current	Resolution	1mA	5mA	10mA	
Mode	Accuracy	0.05%+0.05%F.S.			
Constant	Range	0~150V	0~600V	0~1200V	
Voltage	Resolution	1mV	5mV	10mV	
Mode	Accuracy	0.025%+0.025%F.S.			
Constant	Range	0~2420W	0~12100W	0~24200W	
Power	Resolution	100mW	500mW	1000mW	
Mode	Accuracy	0.2%+0.2%F.S.			
Constant	Range	13.6mΩ~136Ω(150V)	55mΩ~550Ω(600V)	550mΩ~1100Ω(1200V)	
Resistance	Resolution	13.6mΩ(150V)	55mΩ(600V)	550mΩ(1200V)	
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.			
			Dynamic Mode		
	T1&T2(Pro.)	0.02ms~300s			
	T1&T2(Adv.)	0.05ms~300s			
	Resolution	1μs			
	Accuracy	1µs+100ppm			
000/000	Slew Rate(Pro.)	1mA/μs~2.93A/μs	5mA/μs~14.7A/μs	10mA/μs~29.3A/μs	
CCD/CRD	Slew Rate(Adv.)	1mA/μs~0.88A/μs	5mA/μs~4.4A/μs	10mA/μs~8.8A/μs	
	Min. Rise Time(Pro.)	20µs(Typical)			
	Min. Rise Time(Adv.)	50µs(Typical)			
	Resolution	1mA/µs	5mA/µs	10mA/µs	
	Accuracy	5%±10us			
			Measurement		
	Range	0~150V	0~600V	0~1200V	
Voltage	Resolution	1mV	5mV	10mV	
	Accuracy	0.015%+0.015%F.S.			
	Range	0~88A	0~440A	0~880A	
Current	Resolution	1mA	5mA	10mA	
	Accuracy	0.04%+0.06%F.S.			
	Range	0~2420W	0~12100W	0~24200W	
Power	Resolution	100mW	500mW	1000mW	
	Accuracy	0.1%+0.1%F.S.			
Sampling Fre		500kHz			
			Protection		
OVP		165V	660V	1320V	
OCP		89.76A	448.8A	897.6A	
OPP		2492.6W	12463W	24926W	
Over Tempera	ature	70-75°C			
Overvoltage S		110%VF.S.			
Reverse Alarr	*	Yes			
Alarm Tone		Yes			
			Mechanical		
Dimensions(V	VxHxD)	423.0x577.0x670.0mm			
	ensions(WxHxD)	541.0x861.0x891.0mm			
Unit Weight	-/	134.5kg			
Shipping Wei	ght	158.5kg			
			AC Input		
Voltage		100~240Vac			
Frequency		50~60Hz			
		900VA			
Power					

MODEL		EL1200VDC26400W		
	Voltage	0~1200V		
	Current	0~960A		
Rated	Power	0~26400W		
	Min. Operating Voltage	2V@96A	10V@480A	20V@960A
	Will. Operating voltage	_	Static Mode	20V@300A
_	Range	0~96A	0~480A	0~960A
Constant				
Current Mode	Resolution	1mA	5mA	10mA
	Accuracy	0.05%+0.05%F.S.	2 2201/	2 (222)
Constant	Range	0~150V	0~600V	0~1200V
Voltage Mode	Resolution	1mV	5mV	10mV
Wode	Accuracy	0.025%+0.025%F.S.	0. 40000014	0.0040014
Constant	Range	0~2640W	0~13200W	0~26400W
Power	Resolution	100mW	500mW	1000mW
Mode	Accuracy	0.2%+0.2%F.S.		
Constant	Range	12.5mΩ~125Ω(150V)	50mΩ~500Ω(600V)	500mΩ~1000Ω(1200V)
Resistance	Resolution	12.5mΩ(150V)	50mΩ(600V)	500mΩ(1200V)
Mode	Accuracy	Vin/Rset*(0.2%)+0.2% IF.S.		
			Dynamic Mode	
	T1&T2(Pro.)	0.02ms~300s		
	T1&T2(Adv.)	0.05ms~300s		
	Resolution	1µs		
	Accuracy	1μs+100ppm		
CCD/CRD	Slew Rate(Pro.)	1mA/µs~3.2A/µs	5mA/µs~16A/µs	10mA/μs~32A/μs
CCD/CRD	Slew Rate(Adv.)	1mA/μs~0.96A/μs	5mA/μs~4.8A/μs	10mA/μs~9.6A/μs
	Min. Rise Time(Pro.)	20µs(Typical)		
	Min. Rise Time(Adv.)	50µs(Typical)		
	Resolution	1mA/µs	5mA/μs	10mA/µs
	Accuracy	5%±10us		
		N	leasurement	
	Range	0~150V	0~600V	0~1200V
			5 1/	10mV
Voltage	Resolution	1mV	5mV	TOTTY
Voltage	Resolution	1mV 0.015%+0.015%F.S.	5mV	IOIIIV
Voltage	Resolution Accuracy	0.015%+0.015%F.S.	0~480A	0~960A
	Resolution Accuracy Range	0.015%+0.015%F.S. 0~96A	0~480A	
Voltage Current	Resolution Accuracy Range Resolution	0.015%+0.015%F.S. 0~96A 1mA		0~960A
	Resolution Accuracy Range Resolution Accuracy	0.015%+0.015%F.S. 0~96A	0~480A 5mA	0~960A 10mA
Current	Resolution Accuracy Range Resolution Accuracy Range	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W	0~480A 5mA 0~13200W	0~960A 10mA 0~26400W
	Resolution Accuracy Range Resolution Accuracy Range Resolution	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW	0~480A 5mA	0~960A 10mA
Current	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy Accuracy	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S.	0~480A 5mA 0~13200W	0~960A 10mA 0~26400W
Current	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy Accuracy	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz	0~480A 5mA 0~13200W 500mW	0~960A 10mA 0~26400W
Current Power Sampling Free	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy Accuracy	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz	0~480A 5mA 0~13200W 500mW	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy Accuracy	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz	0~480A 5mA 0~13200W 500mW Protection 660V	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Accuracy Accuracy	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W	0~480A 5mA 0~13200W 500mW Protection 660V	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency Accuracy Accur	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S.	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency Accuracy Accur	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency Accuracy Accur	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency Resolution Accuracy Resolution	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency ature Safety Value m	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V) Package Dime	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Quency Resolution Accuracy Resolution	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V) Package Dime Unit Weight	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V) Package Dime	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V) Package Dime Unit Weight Shipping Weight	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes Yes 423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage Frequency	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW
Current Power Sampling Free OVP OCP OPP Over Tempera Overvoltage S Reverse Alarm Alarm Tone Dimensions(V Package Dime Unit Weight Shipping Weight Voltage	Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy Range Resolution Accuracy quency atture Safety Value m VxHxD) ensions(WxHxD)	0.015%+0.015%F.S. 0~96A 1mA 0.04%+0.06%F.S. 0~2640W 100mW 0.1%+0.1%F.S. 500kHz 165V 97.92A 2719.2W 70-75°C 110%VF.S. Yes Yes Yes 1423.0x577.0x670.0mm 541.0x861.0x891.0mm 140kg 164kg	0~480A 5mA 0~13200W 500mW Protection 660V 489.6A 13596W	0~960A 10mA 0~26400W 1000mW

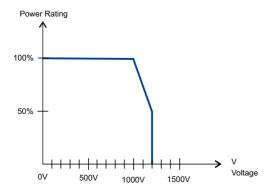


	System Specification		Non Linear Mode		
	CL	30uF~50000uF	Ton Emeal Wode		
	RL	As CR Mode			
Range					
	Ls	0.1uH~16uH			
	Rs	30mΩ~20Ω			
	CL	1uF			
Resolution	RL	As CR Mode			
	Ls	0.1uH			
	Rs	1mΩ			
			ery Discharge Mode		
Battery Voltage		As CV Mode			
Current Resolu	tion	As CC Mode			
Record		AH/WH			
Test Time		1s~100000s			
Time Resolution		1s			
			Program Mode		
Step No.		300 Max.			
Dwell		0.1ms~4000s			
Spec Check		Voltage/Current/Power			
			Vaveform Control/Monitor		
Control/Monitor		Voltage/Current			
Input/Ouput Ra		0~10V			
Voltage Range	ingo	0~L range F.S.	0~M_range F.S.	0~H_range F.S.	
		0~L_range F.S.	0~M_range F.S.	0~H_range F.S.	
Current Range			0-W_tallge F.S.	0-H_lange F.S.	
Accuracy		0.4%F.S.			
Resolution		4mV			
Bandwidth		20kHz			
Input Impedance	ce	10kΩ			
			Short Circuit		
Current(CC)		Full range current value			
Voltage(CV)		Voltage value at the Max pov			
Resistance(CR)	Min resistance value of CR M			
			Master/Slave		
Parallel Interfac	ce	RJ45			
Parallel Quantit	ty (Pro.)	20 units			
Parallel Quantit	ty (Adv.)	10 units			
			General		
Graphic Displa	у	4.3" Color touch LCD			
			y Knob, USB port for transfer and upgrad	ling firmware	
Graphic Displa	Feature		y Knob, USB port for transfer and upgrad	ling firmware	
Graphic Displa Operation Key	Feature	Soft key, Numeric key, Rotary	y Knob, USB port for transfer and upgrad	ling firmware	
Graphic Displa Operation Key Rack Mount Ha	Feature	Soft key, Numeric key, Rotary Yes Temperature Control		ling firmware	
Graphic Displa Operation Key Rack Mount Ha FAN Interface	Feature andles	Soft key, Numeric key, Rotary Yes		ling firmware	
Graphic Displa Operation Key Rack Mount Ha FAN Interface	Feature	Soft key, Numeric key, Rotar Yes Temperature Control RS232/RS485/USB(Standard 30ms	d), GPIB/LAN(Optional)		
Graphic Displa Operation Key Rack Mount Ha FAN Interface	Feature andles n Response Time	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se			
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication	Feature andles n Response Time	Soft key, Numeric key, Rotar Yes Temperature Control RS232/RS485/USB(Standard 30ms	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac	Feature andles n Response Time ity	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 set Factory setting (1 set)	d), GPIB/LAN(Optional)		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac	Feature andles n Response Time ity perature	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 set Factory setting (1 set)	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe	Feature andles n Response Time ity perature rature	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 set Factory setting (1 set) 0-40°C -20-80°C	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe Storage Tempe Temperature Co	Feature andles n Response Time ity perature rature pefficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 set Factory setting (1 set) 0-40°C -20-80°C 100ppm/°C(Typical)	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Temp Storage Tempe Temperature Co Relative Humid	Feature andles n Response Time ity perature rature pefficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0~40°C -20~80°C 100ppm/°C(Typical) 10~90%RH	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe Storage Tempe Temperature Co	Feature andles n Response Time ity perature rature pefficient	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0-40°C -20~80°C 100ppm/°C(Typical) 10~90%RH <2000m	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings Environmental		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Temp Storage Temper Temperature Co Relative Humid Altitude	Feature andles n Response Time eity perature rature pefficient eity	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0-40°C -20-80°C 100ppm/°C(Typical) 10~90%RH <2000m Reguli	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Temp Storage Tempe Temperature Cc Relative Humid Altitude Overvoltage Ca	Feature andles In Response Time Sity Decrature Frature Defficient Sity Sity Sity Sity Sity Sity Sity Sit	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0~40°C -20~80°C 100ppm/°C(Typical) 10~90%RH <2000m Reguli	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings Environmental		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe Storage Tempe Temperature Ct Relative Humid Altitude Overvoltage Ca Protection Deg	Feature andles In Response Time bity Decrature reture pefficient ity ategory ree	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0-40°C -20-80°C 100ppm/°C(Typical) 10~90%RH <2000m Regula	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings Environmental		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe Storage Tempe Temperature Co Relative Humid Altitude Overvoltage Ca Protection Deg Pollution Degre	Feature andles In Response Time Determine the control of the con	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0~40°C -20~80°C 100ppm/°C(Typical) 10~90%RH <2000m Reguli	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings Environmental		
Graphic Displa Operation Key Rack Mount Ha FAN Interface Communication Storage Capac Operating Tempe Storage Tempe Temperature Ct Relative Humid Altitude Overvoltage Ca Protection Deg	Feature andles In Response Time Determine the control of the con	Soft key, Numeric key, Rotary Yes Temperature Control RS232/RS485/USB(Standard 30ms User defined settings (300 se Factory setting (1 set) 0-40°C -20-80°C 100ppm/°C(Typical) 10~90%RH <2000m Regula	d), GPIB/LAN(Optional) ets), OCP settings (10 sets), OPP settings Environmental		

All specifications are subject to change without notice.

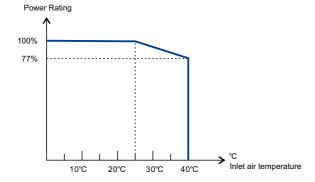
Notice:

- 1. Each model size indicated here does not include the wheel and the protective cover.
- 2. Minimum rise time is valid only for loading current > 5%F.S.
- 3. The measured noise is 79dB which is tested under the condition of 40°C ambient temperature with full power for 5 minutes and 1 meter away from the rear panel.
- 4. If the operating voltage exceeds the rated voltage for 1.1 times, it will cause permanent damage to the unit.
- 5. The over temperature protection sampling point is located in the vent.
- 6. The power rating specifications of 1200V models as below.



7. All the specifications are tested at temperature of 25°C, unless otherwise noted.

See the diagram below for power derating.





Appendix B Warranty

Thank you for purchasing the High Power DC Load of APM Technologies (referred to hereafter as "APM"). In order for you to use our products properly, APM provides you with the standard warranty service as stipulated below. Please read the following instructions carefully.

This warranty is applicable to the High Power DC Load of APM.

All quality warranties and services offered by your distributors are not subject to or covered by this warranty card. Our company bears no responsibility for honoring any commitment or warranty in the aspect for quality warranty or services made by the distributors.

Warranty Period

- 1. The warranty period of APM High Power DC Load is 1 (one) year, or refer to relevant Distributor Agreement terms.
- 2. The warranty period will not be extended or recalculated after a product or component replacement; repaired or replaced products are covered for the remainder of the original warranty period and subject to the conditions outlined in the original warranty.

Warranty Terms

- 1. In case of product malfunction within the warranty period, please send both the scanned copy of warranty card and purchasing invoice to the APM Customer Service by email. APM will provide you services for maintenance and replacement of defected product or components according to the actual conditions. Whatever method we may adopt, APM always strives to provide you with the highest standard and utmost professional after-sales services.
- 2. In case of product replacement, all replaced or exchanged parts which are removed under this warranty will become the property of APM. Please return the replaced product and components to the original place of purchase for APM to collect the replaced items in a certain period of time.

Liability Waiver

APM reserves the rights to refuse product warranty service under the following circumstances:

- 1. The product is out of warranty period.
- 2. Inability to provide the purchasing invoice issued either by the product distributer or the installer besides of unable to determine the product manufacturer as APM.
- 3. APM logo or product label is missing or not readable.
- 4. Product is without an anti-dismantle label or the anti-dismantle label is damaged.
- 5. Accessories included with each product are not in the product warranty scope.
- Defects or damages caused by or resulting from inadequate or improper repairs carried out by any person, entity or service facility which is not authorized by APM to perform warranty services on its behalf.
- 7. Defects or damages caused by or resulting from failure to comply with the operating instructions and contents specified in the related product manuals.
- 8. Defects or damages due to operation in very harsh environment that is beyond the limitations specified in this product manual.
- 9. Defects or damages due to the use of non-standard parts or software or parts which are not developed or manufactured by APM.
- 10. Defects or damages caused by or resulting from force majeure (including but not limited to lightning, immersion in liquid, etc.).
- 11. Defects or damages caused by or resulting from accidents or negligent use (including but not limited to transportation, storage, connection to incompatible voltage, improper operation, etc.).
- 12. Cosmetics defects or damages which won't affect normal operation of the product.

For the malfunction caused by above-mentioned circumstances, APM or its authorized service facility based on its own judgment is willing to provide a paid service in respond to our customer's request.

109

Schedule

Product Information					
	Company Name				
Distributor	Contact Person				
	Phone Code				
	Address				
User's Information					
User	Name				
	Phone Code				
	Address				
	Fax				
	E-mail				
Product Malfunction Information					
Model					
Serial No.					
Warranty Period					
Date of Malfunction	Signature	Malfunction Description & Solutions			

Please stick the product Serial number here.





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MARKETED & SUPPORTED BY

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