

SPECIFICATIONS					
Model			RBS05K-100	RBS10K-100	RBS15K-100
Output Rating					
Rated power			± 5000 W	± 10000 W	± 15000 W
Rated voltage (source)			0 V to 100 V		
Operating voltage (sink)			5 V to 100 V		
Rated current			± 170 A	± 340 A	± 510 A
Output Voltage					
Maximum settable voltage			100 V		
Setting accuracy			0.05 %+0.05 % FS		
Setting resolution			0.1 V		
Load regulation CV			0.05 % FS		
Line regulation CV			0.015 % FS		
Temperature coefficient CV			100 ppm		
Remote sensing (compensation voltage)			5 V		
Source only	Transient response(*1)		2 ms		
	Ripple noise	p-p(*2)	500 mV		
		rms(*3)	35 mV		
	Rise time(*4)	Full load	60 ms		
		No load	15 ms		
	Fall time(*5)	Full load	15 ms		
		No load	30 ms		
Output Current					
Settable maximum source current			170 A	340 A	510 A
Settable maximum sink current			-170 A	-340 A	-510 A
Setting accuracy			0.4 %+0.4 % FS		
Setting resolution			0.01 A		
Load regulation CC			0.2 % FS		
Line regulation CC			0.05 % FS		
Ripple and noise(*6)		rms(*3)	0.1 % FS		
Temperature coefficient CC			200 ppm		
Output Power					
Settable maximum source power			5000 W	10000 W	15000 W
Settable maximum sink power			-5000 W	-10000 W	-15000 W
Setting accuracy			0.5 %+0.5 % FS		
Setting resolution			1 W		
DC Output Resistor					
Resistance range			0 Ω to 100 Ω		
Setting accuracy(*7)			≤ 5 % Rmax(0 % to 10 % Rmax) ; ≤ 10 % Rmax(10 % to Rmax)		
Setting resolution			0.01 Ω		
Protective Functions					
OVP		Range	0 % FS to 110 % FS		
		Accuracy	0.1 %FS		
OCP		Range	0 % FS to 110 % FS		
		Accuracy	0.2 % FS		
OTP			✓	✓	✓
Vsense reverse protection			✓	✓	✓
Input voltage protection (OVP, UVP)			✓	✓	✓
Display Accuracy					
Voltage		Accuracy	0.05 %+0.05 % FS		
		Resolution	0.1 V		
Current		Accuracy	0.4 %+0.4 % FS		
		Resolution	0.01 A		
Power		Accuracy	0.5 %+0.5 % FS		
		Resolution	0.001 kW		
Interfaces Digital					
All-in-One(USB,RS-232/RS-485,CAN,LAN)(*8)			All-in-On / GPIB		
GPIB(*8)			All-in-On / GPIB		
400 V Three-phase Three-wire Input					
Nominal input rating			380 Vac to 460 Vac		
Input voltage range			342 Vac to 510 Vac		
Input frequency range			47 Hz to 63 Hz		
Output Power			5000 W	10000 W	15000 W
Input current (MAX)		at 342 Vac	9.2 A	18.4 A	27.6 A
Input power (MAX)			5.5 kVA	11 kVA	16.5 kVA
Power factor (TYP)			0.99		
Leakage current			5 mA		
Efficiency sink/source (up to)			93 %		
General Specifications					
Environmental conditions	Operating temperature		0 °C to 40 °C		
	Operating humidity		20 % to 90 % RH		
	Storage temperature		-10 °C to 70 °C		
	Storage humidity		20 % to 90 % RH		
	Altitude		1000 m		
Withstand voltage	AC input to case (PE)		DC 2300 V		
Insulation resistance	Between output and GND		DC 500 V		
Mechanical construction	Dimensions (W x H x D) mm		482 mm x 133.3 mm x 790 mm		
	Weight		24 kg	32 kg	40 kg
Parallel operation			✓	✓	✓

*1. When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

*2. Measurement frequency bandwidth is 20 Hz to 20 MHz.

*3. Measurement frequency bandwidth is 20 Hz to 2 MHz.

*4. First set the 0 V output, from 10 % to 90 % of the rated output voltage, with pure resistance.

*5. Rated voltage output, then set to 0 V,from 90 % to 10 % of rated output voltage, with pure resistance.

*6. The ripple is measured at 20 % to 100 % output voltage and full output current. Source mode is 0.1 % FS,Sink and Load mode is 0.2 % FS.

*7. When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

*8. Communication interface: one of two, factory-installed.

SPECIFICATIONS				
Model		RBS05K-500	RBS10K-500	RBS15K-500
Output Rating				
Rated power		± 5000 W	± 10000 W	± 15000 W
Rated voltage (source)		0 V to 500 V		
Operating voltage (sink)		10 V to 500 V		
Rated current		± 40 A	± 80 A	± 120 A
Output Voltage				
Maximum settable voltage		500 V	500 V	500 V
Setting accuracy		0.05 %+0.05 % FS		
Setting resolution		0.1 V		
Load regulation CV		0.03 % FS		
Line regulation CV		0.015 % FS		
Temperature coefficient CV		100 ppm		
Remote sensing (compensation voltage)		25 V		
Source only	Transient response(*1)		2 ms	
	Ripple noise	p-p(*2)	600 mV	
		rms(*3)	95 mV	
	Rise time(*4)	Full load	30 ms	
		No load	15 ms	
	Fall time(*5)	Full load	15 ms	
		No load	30 ms	
Output Current				
Settable maximum source current		40 A	80 A	120 A
Settable maximum sink current		-40 A	-80 A	-120 A
Setting accuracy		0.15 %+0.15 % FS		
Setting resolution		0.01 A		
Load regulation CC		0.1 % FS		
Line regulation CC		0.05 % FS		
Ripple and noise(*6)	rms(*3)	0.1 % FS		
Temperature coefficient CC		200 ppm		
Output Power				
Settable maximum source power		5000 W	10000 W	15000 W
Settable maximum sink power		-5000 W	-10000 W	-15000 W
Setting accuracy		0.5 %+0.5 % FS		
Setting resolution		1 W		
DC Output Resistor				
Resistance range		0 Ω to 500 Ω		
Setting accuracy(*7)		≤ 5 % Rmax(0 % to 10 % Rmax) ; ≤ 10 % Rmax(10 % to Rmax)		
Setting resolution		0.01 Ω		
Protective Functions				
OVP	Range	0 % FS to 110 % FS		
	Accuracy	0.1 %FS		
OCP	Range	0 % FS to 110 % FS		
	Accuracy	0.2 % FS		
OTP		✓	✓	✓
Vsense reverse protection		✓	✓	✓
Input voltage protection (OVP, UVP)		✓	✓	✓
Display Accuracy				
Voltage	Accuracy	0.05 %+0.05 % FS		
	Resolution	0.1 V		
Current	Accuracy	0.15 %+0.15 % FS		
	Resolution	0.01 A		
Power	Accuracy	0.5 %+0.5 % FS		
	Resolution	0.001 kW		
Interfaces Digital				
All-in-One(USB,RS-232/RS-485,CAN,LAN)(*8)		All-in-On / GPIB		
GPIB(*8)		All-in-On / GPIB		
400 V Three-phase Three-wire Input				
Nominal input rating		380 Vac to 460 Vac		
Input voltage range		342 Vac to 510 Vac		
Input frequency range		47 Hz to 63 Hz		
Output Power		5000 W	10000 W	15000 W
Input current (MAX)	at 342 Vac	9.2 A	18.4 A	27.6 A
Input power (MAX)		5.5 kVA	11 kVA	16.5 kVA
Power factor (TYP)		0.99		
Leakage current		5 mA		
Efficiency sink/source (up to)		93 %		
General Specifications				
Environmental conditions	Operating temperature		0 °C to 40 °C	
	Operating humidity		20 % to 90 % RH	
	Storage temperature		-10 °C to 70 °C	
	Storage humidity		20 % to 90 % RH	
	Altitude		1000 m	
Withstand voltage	AC input to case (PE)		DC 2300 V	
Insulation resistance	Between output and GND		DC 500 V	
Mechanical construction	Dimensions (W x H x D) mm		482 mm x 133.3 mm x 790 mm	
	Weight		24 kg	32 kg
Parallel operation		✓	✓	✓

*1. When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

*2. Measurement frequency bandwidth is 20 Hz to 20 MHz.

*3. Measurement frequency bandwidth is 20 Hz to 2 MHz.

*4. First set the 0 V output, from 10 % to 90 % of the rated output voltage, with pure resistance.

*5. Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage, with pure resistance.

*6. The ripple is measured at 20 % to 100 % output voltage and full output current. Source mode is 0.1 % FS,Sink and Load mode is 0.2 % FS.

*7. When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

*8. Communication interface: one of two, factory-installed.

SPECIFICATIONS					
Model			RBS05K-750	RBS10K-750	RBS15K-750
Output Rating					
Rated power			± 5000 W	± 10000 W	± 15000 W
Rated voltage (source)			0 V to 750 V		
Operating voltage (sink)			10 V to 750 V		
Rated current			± 25 A	± 50 A	± 75 A
Output Voltage					
Maximum settable voltage			750 V		
Setting accuracy			0.05 %+0.05 % FS		
Setting resolution			0.1 V		
Load regulation CV			0.03 % FS		
Line regulation CV			0.015 % FS		
Temperature coefficient CV			100 ppm		
Remote sensing (compensation voltage)			37.5 V		
Source only	Transient response(*1)		2 ms		
	Ripple noise	p-p(*2)	900 mV		
		rms(*3)	100 mV		
	Rise time(*4)	Full load	30 ms		
		No load	15 ms		
	Fall time(*5)	Full load	15 ms		
		No load	30 ms		
Output Current					
Settable maximum source current			25 A	50 A	75 A
Settable maximum sink current			-25 A	-50 A	-75 A
Setting accuracy			0.15 %+0.15 % FS		
Setting resolution			0.01 A		
Load regulation CC			0.1 % FS		
Line regulation CC			0.05 % FS		
Ripple and noise(*6)		rms(*3)	0.1 % FS		
Temperature coefficient CC			200 ppm		
Output Power					
Settable maximum source power			5000 W	10000 W	15000 W
Settable maximum sink power			-5000 W	-10000 W	-15000 W
Setting accuracy			0.5 %+0.5 % FS		
Setting resolution			1 W		
DC Output Resistor					
Resistance range			0 Ω to 750 Ω		
Setting accuracy(*7)			≤ 5 % Rmax(0 % to 10 % Rmax) ; ≤ 10 % Rmax(10 % to Rmax)		
Setting resolution			0.01 Ω		
Protective Functions					
OVP		Range	0 % FS to 110 % FS		
		Accuracy	0.1 %FS		
OCP		Range	0 % FS to 110 % FS		
		Accuracy	0.2 % FS		
OTP			✓	✓	✓
Vsense reverse protection			✓	✓	✓
Input voltage protection (OVP, UVP)			✓	✓	✓
Display Accuracy					
Voltage		Accuracy	0.05 %+0.05 % FS		
		Resolution	0.1 V		
Current		Accuracy	0.15 %+0.15 % FS		
		Resolution	0.01 A		
Power		Accuracy	0.5 %+0.5 % FS		
		Resolution	0.001 kW		
Interfaces Digital					
All-in-One(USB,RS-232/RS-485,CAN,LAN)(*8)			All-in-On / GPIB		
GPIB(*8)			All-in-On / GPIB		
400 V Three-phase Three-wire Input					
Nominal input rating			380 Vac to 460 Vac		
Input voltage range			342 Vac to 510 Vac		
Input frequency range			47 Hz to 63 Hz		
Output Power			5000 W	10000W	15000W
Input current (MAX)		at 342 Vac	9.2 A	18.4A	27.6A
Input power (MAX)			5.5 kVA	11 kVA	16.5 kVA
Power factor (TYP)			0.99		
Leakage current			5 mA		
Efficiency sink/source (up to)			93 %		
General Specifications					
Environmental conditions	Operating temperature		0 °C to 40 °C		
	Operating humidity		20 % to 90 % RH		
	Storage temperature		-10 °C to 70 °C		
	Storage humidity		20 % to 90 % RH		
	Altitude		1000 m		
Withstand voltage	AC input to case (PE)		DC 2300 V		
Insulation resistance	Between output and GND		DC 500 V		
Mechanical construction	Dimensions (W x H x D) mm		482 mm × 133.3 mm × 790 mm		
	Weight		24 kg	32 kg	40 kg
Parallel operation			✓	✓	✓

*1. When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

*2. Measurement frequency bandwidth is 20 Hz to 20 MHz.

*3. Measurement frequency bandwidth is 20 Hz to 2 MHz.

*4. First set the 0 V output,from 10 % to 90 % of the rated output voltage,with pure resistance.

*5. Rated voltage output, then set to 0 V,from 90 % to 10 % of rated output voltage,with pure resistance.

*6. The ripple is measured at 20 % to 100 % output voltage and full output current.Source mode is 0.1 % FS,Sink and Load mode is 0.2 % FS.

*7. When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

*8. Communication interface: one of two, factory-installed.

SPECIFICATIONS								
Model			RBS10K-1000		RBS15K-1500		RBS15K-2250	
Output Rating								
Rated power			± 10000 W		± 15000 W		± 15000 W	
Rated voltage (source)			0 V to 1000 V		0 V to 1500 V		0 V to 2250 V	
Operating voltage (sink)			10 V to 1000 V		10 V to 1500 V		10 V to 2250 V	
Rated current			± 40 A		± 40 A		± 25 A	
Output Voltage								
Maximum settable voltage			1000 V		1500 V		2250 V	
Setting accuracy			0.05 %+0.05 % FS					
Setting resolution			0.1 V					
Load regulation CV			0.03 % FS					
Line regulation CV			0.015 % FS					
Temperature coefficient CV			100 ppm					
Remote sensing (compensation voltage)			50 V		75 V		112.5 V	
Source only	Transient response(*1)		2 ms					
	Ripple noise	p-p(*2)	1700 mV		2000 mV		6000 mV	
		rms(*3)	295 mV		300 mV		400 mV	
	Rise time(*4)	Full load	30 ms					
		No load	15 ms					
	Fall time(*5)	Full load	15 ms					
		No load	30 ms					
Output Current								
Settable maximum source current			40 A		40 A		25 A	
Settable maximum sink current			-40 A		-40 A		-25 A	
Setting accuracy			0.15 %+0.15 % FS		0.15 %+0.15 % FS		0.2 %+0.2 % FS	
Setting resolution			0.01 A					
Load regulation CC			0.1 % FS					
Line regulation CC			0.05 % FS					
Ripple and noise(*6)		rms(*3)	0.1 % FS					
Temperature coefficient CC			200 ppm					
Output Power								
Settable maximum source power			10000 W		15000 W		15000 W	
Settable maximum sink power			-10000 W		-15000 W		-15000 W	
Setting accuracy			0.5 %+0.5 % FS		0.5 %+0.5 % FS		1 %+1 % FS	
Setting resolution			1 W					
DC Output Resistor								
Resistance range			0 Ω to 1000 Ω		0 Ω to 1500 Ω		0 Ω to 2250 Ω	
Setting accuracy(*7)			≤ 5 % Rmax(0 % to 10 % Rmax) ; ≤ 10 % Rmax(10 % to Rmax)					
Setting resolution			0.01 Ω					
Protective Functions								
OVP		Range	0 % FS to 110 % FS					
		Accuracy	0.1 %FS					
OCP		Range	0 % FS to 110 % FS					
		Accuracy	0.2 % FS					
OTP			✓		✓		✓	
Vsense reverse protection			✓		✓		✓	
Input voltage protection (OVP, UVP)			✓		✓		✓	
Display Accuracy								
Voltage		Accuracy	0.05 %+0.05 % FS					
		Resolution	0.1 V					
Current		Accuracy	0.15 %+0.15 % FS		0.15 %+0.15 % FS		0.2 %+0.2 % FS	
		Resolution	0.01 A					
Power		Accuracy	0.5 %+0.5 % FS		0.5 %+0.5 % FS		1 %+1 % FS	
		Resolution	0.001 kW					
Interfaces Digital								
All-in-One(USB,RS-232/RS-485,CAN,LAN)(*8)							All-in-On / GPIB	
GPIB(*8)							All-in-On / GPIB	
400 V Three-phase Three-wire Input								
Nominal input rating			380 Vac to 460 Vac					
Input voltage range			342 Vac to 510 Vac					
Input frequency range			47 Hz to 63 Hz					
Output Power			10000 W		15000 W		15000 W	
Input current (MAX)		at 342 Vac	18.4 A		27.6 A		27.6 A	
Input power (MAX)			11 kVA		16.5 kVA		16.5 kVA	
Power factor (TYP)			0.99					
Leakage current			5 mA					
Efficiency sink/source (up to)			93 %					
General Specifications								
Environmental conditions	Operating temperature		0 °C to 40 °C					
	Operating humidity		20 % to 90 % RH					
	Storage temperature		-10 °C to 70 °C					
	Storage humidity		20 % to 90 % RH					
	Altitude		1000 m					
Withstand voltage		AC input to case (PE)		DC 2300 V				
Insulation resistance		Between output and GND		DC 500 V				
Mechanical construction	Dimensions (W x H x D) mm		482 mm x 133.3 mm x 790 mm					
	Weight		32 kg		40 kg		40 kg	
Parallel operation			✓		✓		✓	

*1. When the load changes from 50 % to 100 %, or from 100 % to 50 %, the voltage returns to within 0.75 % of the rating.

*2. Measurement frequency bandwidth is 20 Hz to 20 MHz.

*3. Measurement frequency bandwidth is 20 Hz to 2 MHz.

*4. First set the 0 V output, from 10 % to 90 % of the rated output voltage, with pure resistance.

*5. Rated voltage output, then set to 0 V, from 90 % to 10 % of rated output voltage, with pure resistance.

*6. The ripple is measured at 20 % to 100 % output voltage and full output current. Source mode is 0.1 % FS, Sink and Load mode is 0.2 % FS.

*7. When the input voltage is within 10 % to 100 % of the RBS voltage range and the load current is within 10 % to 100 % of the RBS current range.

*8. Communication interface: one of two, factory-installed.