

	MODELS	GPT-12000 Series	GPT-9800 Series	GPT-9900 Series
		GPT-12001 : ACW/GC	GPT-9801 : ACW	GPT-9901A : ACW
		GPT-12002 : ACW/DCW/GC	GPT-9802 : ACW/DCW	GPT-9902A : ACW/DCW
		GPT-12003 : ACW/DCW/IR/GC	GPT-9803 : ACW/DCW/IR	GPT-9903A : ACW/DCW/IR
		GPT-12004 : ACW/DCW/IR/GB/GC	GPT-9804 : ACW/DCW/IR/GB	GPT-9904 : ACW/DCW/IR/GB
	SPECIFICATIONS	GPT-12000	GPT-9800	GPT-9900
(*) Functions supports depending on MODELS		200VA	200VA	500VA
AC Withsatndng (ACW)				
Output-Voltage Range		0.050kV~5.000kV	0.050kV~5.000kV	0.050kV~5.000kV
Output-Voltage Resolution		1V	2V	2V
Output-Voltage Accuracy		± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]
Maximum Rated Load		200 VA (5kV/40mA)	200 VA (5kV/40mA)	500 VA (5kV/100mA)
Maximum Rated Current		40mA (0.5kV< V ≤ 5kV) 10mA (0.05kV ≤ V ≤ 0.5kV)	40mA (0.5kV< V ≤ 5kV) 10mA (0.05kV ≤ V ≤ 0.5kV)	100mA (0.5kV< V ≤ 5kV) 10mA (0.05kV ≤ V ≤ 0.5kV)
Output-Voltage Waveform		Sine wave	Sine wave	Sine wave
Output-Voltage Frequency		50 Hz / 60 Hz selectable	50 Hz / 60 Hz selectable	50 Hz / 60 Hz selectable
Voltage Regulation		± (1% + 5V) [maximum rated load → no load]	± (1% + 5V) [maximum rated load → no load]	± (1% + 5V) [maximum rated load → no load]
Voltmeter Accuracy		± (1% of reading + 5V)	± (1% of reading + 5V)	± (1% of reading + 5V)
Current Measurement Range		1μA~40.00mA	0.001mA~40.00mA	0.001mA~100.0mA
Current Best Resolution		1μA / 10μA	0.001mA / 0.01mA/ 0.1mA	0.001mA / 0.01mA/ 0.1mA
Current Measurement Accuracy		±(1.5% of reading + 3μA) when I Reading < 1mA ±(1.5% of reading + 30μA) when I Reading ≥ 1mA	±(1.5% of reading + 30 counts) when HI SET <1.11mA ±(1.5% of reading + 3 counts) when HI SET ≥1.11mA	±(1.5% of reading + 30 counts) when HI SET <1.11mA ±(1.5% of reading + 3 counts) when HI SET ≥1.11mA
Window Comparator Method		Yes	Yes	Yes
ARC Detect		Yes	Yes	Yes
RAMP UP (Rise Time)		0.1s~999.9s	0.1s~999.9s	0.1s~999.9s
RAMP DOWN (Fall Time)		0.0s~999.9s	X	X
TIMER (Test Time)		OFF, 0.3s~999.9s	OFF*, 0.5s~999.9s	OFF*, 0.5s~999.9s
WAIT TIME		0.0s~999.9s	X	X
GND		ON/OFF	ON/OFF	ON/OFF
DC Withsatndng (DCW)				
Output-Voltage Range		0.050kV~6.000kV	0.050kV~6.000kV	0.050kV~6.000kV
Output-Voltage Resolution		1V	2V	2V
Output-Voltage Accuracy		± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]
Maximum Rated Load		50W (5kV/10mA)	50W (5kV/10mA)	100W (5kV/20mA)
Maximum Rated Current		10mA (0.5kV< V ≤ 6kV) 2mA (0.05kV ≤ V ≤ 0.5kV)	10mA (0.5kV< V ≤ 6kV) 2mA (0.05kV ≤ V ≤ 0.5kV)	20mA (0.5kV< V ≤ 6kV) 2mA (0.05kV ≤ V ≤ 0.5kV)
Voltage Regulation		± (1% + 5V) [maximum rated load → no load]	± (1% + 5V) [maximum rated load → no load]	± (1% + 5V) [maximum rated load → no load]
Voltmeter Accuracy		± (1% of reading + 5V)	± (1% of reading + 5V)	± (1% of reading + 5V)
Current Measurement Range		1μA~10.00mA	0.001mA~10.00mA	0.001mA~20.0mA
Current Best Resolution		0.1μA / 1μA / 10μA	0.001mA / 0.01mA/ 0.1mA	0.001mA / 0.01mA/ 0.1mA
Current Measurement Accuracy		±(1.5% of reading + 3μA) when I Reading < 1mA ±(1.5% of reading + 30μA) when I Reading ≥ 1mA	±(1.5% of reading + 30 counts) when HI SET <1.11mA ±(1.5% of reading + 3 counts) when HI SET ≥1.11mA	±(1.5% of reading + 30 counts) when HI SET <1.11mA ±(1.5% of reading + 3 counts) when HI SET ≥1.11mA
Window Comparator Method		Yes	Yes	Yes
ARC Detect		Yes	Yes	Yes
RAMP UP (Rise Time)		0.1s~999.9s	0.1s~999.9s	0.1s~999.9s
RAMP DOWN (Fall Time)		0.0s~999.9s	X	X
TIMER (Test Time)		OFF, 0.3s~999.9s	OFF*, 0.5s~999.9s	OFF*, 0.5s~999.9s
WAIT TIME		0.0s~999.9s	X	X
GND		ON/OFF	ON/OFF	ON/OFF
Insulation Resistance (IR)				
Output Voltage		50V~1200V dc	50V~1000V dc	50V~1000V dc
Output-Voltage Resolution		50V	50V	50V
Output-Voltage Accuracy		± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]	± (1% of setting + 5V) [no load]
Resistance Measurement				
Test Voltage	Display Range	Measurement Range / Accuracy	Measurement Range / Accuracy	Measurement Range / Accuracy
50V≤V≤100V	0.1MΩ~ 10.00GΩ	0.1MΩ~1MΩ : ±(5% of reading + 3 count) 1 MΩ~50MΩ : ±(5% of reading + 1 count)	X 1 MΩ~50MΩ : ±(5% of reading + 1 count)	X 0.001GΩ~0.050GΩ : ±(5% of reading + 1 count)

150V≤V≤450V	0.1MΩ~ 20.00GΩ	51MΩ~2GΩ : ±(10% of reading + 1 count)	51MΩ~2000MΩ : ±(10% of reading + 1 count)	0.051GΩ~2.000GΩ : ±(10% of reading + 1 count)
500V≤V≤1200V	0.1MΩ~ 50.00GΩ	0.1MΩ~1MΩ : ±(5% of reading + 3 count)		
		1 MΩ~500MΩ : ±(5% of reading + 1 count)	1 MΩ~500MΩ : ±(5% of reading + 1 count)	0.001GΩ~0.500GΩ : ±(5% of reading + 1 count)
		501MΩ~9.999GΩ : ±(10% of reading + 1 count)	501MΩ~9500MΩ : ±(10% of reading + 1 count)	0.501GΩ~9.999GΩ : ±(10% of reading + 1 count)
		10GΩ~50GΩ : ±(20% of reading + 1 count)		10.00GΩ~50.00GΩ : ±(20% of reading + 1 count)
Voltage Regulation		± (1% + 5V) [maximum rated load → no load]	X	X
Voltmeter Accuracy		± (1% of reading + 5V)	X	X
Short-Circuit Current		10mA max.	X	X
Output Impedance		2kΩ	600kΩ	600kΩ
Window Comparator Method		Yes	Yes	Yes
RAMP UP (Rise Time)		0.1s~999.9s	0.1s~999.9s	0.1s~999.9s
RAMP DOWN (Fall Time)		0.0s~999.9s	X	X
TIMER (Test Time)		0.3s~999.9s	0.5s~999.9s	0.5s~999.9s
WAIT TIME		0.0s~999.9s	X	X
GND		ON/OFF	OFF	OFF
IR Mode		Available	X	X
Ground Bond (GB)				
Output-Current		03.00A~32.00A ac	03.00A~30.00A ac	03.00A~32.00A ac
Output-Current Resolution		0.01A	0.01A	0.01A
Output-Current Accuracy		3A≤I≤8A : ±(1% of reading + 0.2A) 8A<I≤32A : ±(1% of reading + 0.05A)	3A≤I≤8A : ±(1% of reading + 0.2A) 8A<I≤30A : ±(1% of reading + 0.05A)	3A≤I≤8A : ±(1% of reading + 0.2A) 8A<I≤30A : ±(1% of reading + 0.05A)
Test-Voltage		8Vac max (open circuit)	6Vac max (open circuit)	6Vac max (open circuit)
Test-Voltage Frequency		50Hz/60Hz selectable	50Hz/60Hz selectable	50Hz/60Hz selectable
Ohmmeter Measurement Range		1mΩ~ 650mΩ	10mΩ~ 650mΩ	10mΩ~ 650mΩ
Ohmmeter Measurement Resolution		0.1mΩ	0.1mΩ	0.1mΩ
Ohmmeter Measurement Accuracy		±(1% of reading + 2 mΩ)	±(1% of reading + 2 mΩ)	±(1% of reading + 2 mΩ)
Window Comparator Method		Yes	Yes	Yes
TIMER (Test Time)		0.3s~999.9s	0.5s~999.9s	0.5s~999.9s
Test Method		Four Terminal	Four Terminal	Four Terminal
GND		ON/OFF	OFF	OFF
Ground Continuity (GC)				
Output-Current		100mA dc (fixed)	X	X
Ohmmeter Measurement Range		0.10Ω~ 70.00Ω	X	X
Ohmmeter Measurement Resolution		0.01Ω	X	X
Ohmmeter Measurement Accuracy		±(10% of reading + 2 Ω)	X	X
Memory				
Single Step Memory		MANU : 100 blocks	MANU : 100 blocks	MANU : 100 blocks
Automatic Testing Memory		AUTO : 100 blocks, manu per auto : 10; Allow AUTO+AUTO in sequence number	AUTO : 100 blocks, manu per auto : 16	AUTO : 100 blocks, manu per auto : 16
Special Features				
Sweep Function		Standard	X	X
Statistics		Standard	X	X
User Defined Signal I/O		Standard	X	X
Interface				
Front	REMOTE	Standard	Standard	Standard
	USB host	Standard	X	X
Rear	Rear Output	Standard	X	Standard
	RS-232C	Standard	Standard	Standard
	USB device	Standard	Standard	Standard
	SCAN Terminal	X	Standard (for optional GSB-01/02)	Standard (for optional GSB-01/02)
	Signal I/O	Standard	Standard	Standard
	GPIB	Option	Option	Option
General				
Display		7" color LCD	240 x 64 Ice Blue Dot Matrix LCD	240 x 64 Ice Blue Dot Matrix LCD
Power Source & Consumption		AC 100V~240V ± 10%, 50Hz/60Hz; Max. 400VA	AC 100V/120V/230V/240V ± 10%, 50Hz/60Hz; Max. 500VA	AC 100V/120V/230V/240V ± 10%, 50Hz/60Hz; Max. 1000VA
DIMENSION & WEIGHT		380(W) x 148(H) x 454(D) mm; Approx. 15kg	330(W) x 148(H) x 452(D) mm; Approx. 19kg	330(W) x 148(H) x 482(D) mm; Approx. 19kg 330(W) x 148(H) x 587 (D) mm; Approx. 27kg ~GPT-9904 only