GPT-9800 Specifications

The specifications apply when the GPT-9800 is powered on for at least 30 minutes under +20°C~+30°C.

Model \ Func.	AC WITHSTANDING	DC WITHSTANDING	INSULATION RESISITANCE	GROUND BOND
GPT-9804	✓	✓	✓	✓
GPT-9803	✓	✓	✓	✗
GPT-9802	✓	✓	✗	✗
GPT-9801	✓	✗	✗	✗

AC WITHSTANDING	
Output-Voltage Range	0.050kV~ 5.000kV ac
Output-Voltage Resolution	2V/step
Output-Voltage Accuracy	± (1% of setting +5V) [no load]
Maximum Rated Load	200 VA (5kV/40mA)
Maximum Rated Current	40mA (0.5kV < V ≦ 5kV)
	10mA (0.05kV ≦ V≦ 0.5kV)
Output-Voltage Waveform	Sine wave
Output-Voltage Frequency	50 Hz / 60 Hz selectable
Voltage regulation	± (1% of reading +5V) [full load → no load]
Voltmeter Accuracy	± (1% of reading+ 5V)
Current Measurement Range	0.001mA~040.0mA
Current Best Resolution	0.001mA / 0.01mA / 0.1mA
AC Current Measurement Accuracy	±(1.5% of reading +30 counts) when HISET < 1.11mA
	±(1.5% of reading +3 counts) when HISET ≧ 1.11mA
Window Comparator Method	Yes
ARC Detect	Yes
RAMP (Ramp-Up Time)	0.1~999.9s
TIMER (Test Time)*	OFF, 0.5s~999.9s
GND	ON/OFF
DC WITHSTANDING	
Output-Voltage Range	0.050kV~ 6.000kV dc
Output-Voltage Resolution	2V/step
Output-Voltage Accuracy	± (1% of setting +5V) [no load]
Maximum Rated Load	50W (5kV/10mA)
Maximum Rated Current	10mA (0.5kV < V ≦ 6kV)
	2mA (0.05kV ≦ V≦ 0.5kV)
Voltage regulation	± (1% of reading +5V) [full load → no load]
Voltmeter Accuracy	± (1% of reading+ 5V)
Current Measurement Range	0.001mA~010.0mA
Current Best Resolution	0.001mA / 0.01mA / 0.1mA
DC Current Measurement Accuracy	±(1.5% of reading +30 counts) when HISET < 1.11mA
	±(1.5% of reading +3 counts) when HISET ≧ 1.11mA
Window Comparator Method	Yes
ARC Detect	Yes
RAMP (Ramp-Up Time)	0.1~999.9s
TIMER (Test Time)*	OFF, 0.5s~999.9s
GND	ON/OFF
INSULATION RESISITANCE	
Output-Voltage	50V~1000V dc
Output-Voltage Resolution	50V/step
Output-Voltage Accuracy	± (1% of setting +5V) [no load]

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Resistance Measurement Range		1 Mohm~ 9500 Mohm	
	Test voltage	Measurable Range	Accuracy
	50V≦V≦450V	1 Mohm~ 50 Mohm	±(5% of reading +1 count)
		51 Mohm~ 2000 Mohm	±(10% of reading +1 counts)
	500V≦V≦1000V	1M ohm~ 500 Mohm	±(5% of reading +1 count)
		501 Mohm~ 9500 Mohm	±(10% of reading +1 count)
Window Comparator Method		Yes	
Output Impedance		600 kohm	
RAMP (Ramp-Up Time)		0.1~999.9s	
TIMER (Test Time)		1s~999.9s	
GND		OFF (fixed)	
GROUND BOND			
Output-Current Range		03.00A~30.00A ac	
Output-Current Resolution		0.01A	
Output-Current Accuracy		3A≦I≦8A : ± (1% of setting +0.2A)	
		8A<I≦30A : ± (1% of setting +0.05A)	
Test-Voltage		6Vac max. (open circuit)	
Test-Voltage Frequency		50 Hz / 60 Hz selectable	
Resistance Measurement Range		10mW~650.0mW	
Resistance Measurement Resolution		0.1mW	
Resistance Measurement Accuracy		± (1% of reading +2mW)	
Window Comparator Method		Yes	
TIMER (Test Time)		0.5s~999.9s	
GND		OFF (fixed)	
Test Method		Four Terminal	
MEMORY			
Single Step Memory		MANU : 100 blocks	
Automatic Testing Memory		AUTO : 100 blocks, menu per auto : 16	
INTERFACE			
RS232		Standard	
USB (Device)		Standard	
GPIB		Option	
Remote Terminal (Front)		Standard	
SIGNAL IO		Standard	
General			
DISPLY		240 x 64 dot matrix LED back light LCD	
POWER SOURCE		AC100V/120V/220V/230V ±10%, 50/60Hz	
POWER CONSUMPTION		500VA max.	
DIMENSIONS & WEIGHT		330(W) x 148(H) x 452(D) mm, approx.19kg(Max)	

* The "TIMER OFF" can only be performed when the tester is in the special MANU mode