

GPT-9800 Specifications

The specifications apply when the GPT-9800 is powered on for at least 30 minutes under +15°C~+35°C.



(GPT-9801/9802/9803)



(GPT-9804)



(with optional GPIB)

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

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 RESISTANCE			
Output-Voltage	50V~1000V dc		
Output-Voltage Resolution	50V/step		
Output-Voltage Accuracy	± (1% of setting +5V) [no load]		
Resistance Measurement Range	1 MΩ ~ 9500 MΩ		
	Test voltage	Measurable Range	Accuracy
	50V ≤ V ≤ 450V	1 MΩ ~ 50 MΩ	±(5% of reading +1 count)
		51 MΩ ~ 2000 MΩ	±(10% of reading +1 counts)
	500V ≤ V ≤ 1000V	1 MΩ ~ 500 MΩ	±(5% of reading +1 count)
		501 MΩ ~ 9500 MΩ	±(10% of reading +1 count)
Window Comparator Method	Yes		
Output Impedance	600 kΩ		
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	10mΩ ~ 650.0mΩ		
Resistance Measurement Resolution	0.1mΩ		
Resistance Measurement Accuracy	± (1% of reading +2mΩ)		
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			
Standard	RS232, USB device, SIGNAL IO, Remote Terminal (Front)		
Option	GPIB		
GENERAL			
Display	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)		

* TIMER Accuracy: ± (100ppm + 20ms)

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