

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 RESISTANCE	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 RESISTANCE	
Output-Voltage	50V~1000V dc
Output-Voltage Resolution	50V/step
Output-Voltage Accuracy	± (1% of setting +5V) [no load]

Resistance Measurement Range	1 Mohm~ 9500 Mohm		
	Test voltage	Measurable Range	Accuracy
	50V ≤ V ≤ 450V	1 Mohm~ 50 Mohm 51 Mohm~ 2000 Mohm	±(5% of reading +1 count) ±(10% of reading +1 counts)
	500V ≤ V ≤ 1000V	1M ohm~ 500 Mohm 501 Mohm~ 9500 Mohm	±(5% of reading +1 count) ±(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