

GPT-9900 Specifications

The specifications apply when the GPT-9900 is powered on for at least 30 minutes under +15°C~+35°C.

Model \ Func.	AC * WITHSTANDING	DC WITHSTANDING	INSULATION RESISTANCE	GROUND BOND
GPT-9904	✓	✓	✓	✓
GPT-9903A	✓	✓	✓	✗
GPT-9902A	✓	✓	✗	✗
GPT-9901A	✓	✗	✗	✗

* AC Withstanding short circuit current > 200mA

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	500 VA (5kV/100mA)
Maximum Rated Current	100mA (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~100.0mA
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
Sweep Function**	Yes
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	100W (5kV/20mA)
Maximum Rated Current	20mA (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~020.0mA
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
Sweep Function**	Yes
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		0.001 GΩ ~ 50.00 GΩ	
	Test voltage	Measurable Range	Accuracy
	50V ≤ V ≤ 450V	0.001 ~ 0.050 GΩ	±(5% of reading +1 count)
		0.051 ~ 2.000 GΩ	±(10% of reading +1 counts)
	500V ≤ V ≤ 1000V	0.001 ~ 0.500 GΩ	±(5% of reading +1 count)
		0.501 ~ 9.999 GΩ	±(10% of reading +1 count)
		10.00 ~ 50.00 GΩ	±(20% 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	
Sweep Function**		Yes	
GND		OFF (fixed)	
GROUND BOND			
Output-Current Range		03.00A~32.00A ac	
Output-Current Resolution		0.01A	
Output-Current Accuracy		3A ≤ I ≤ 8A : ± (1% of setting +0.2A) 8A<I ≤ 32A : ± (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	
Sweep Function**		Yes	
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			
Rear Output		Standard	
RS232		Standard	
USB (Device)		Standard	
GPIO		Option	
Remote Terminal (Front)		Standard	
SIGNAL IO		Standard	
GENERAL			
Display		240 x 64 dot matrix LED back light LCD	
Power Source		AC100V/120V/220V/230V ±10%, 50/60Hz	
Power Consumption		1000VA max.	
Dimensions & Weight		330(W) x 148(H) x 587(D) mm (GPT-9904), 330(W) x 148(H) x 482(D) mm (GPT-9903A/9902A/9901A) approx.27kg(Max)	

* TIMER Accuracy: ± (100ppm + 20ms)

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