

## GPT-9900 Specifications

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



(GPT-9903A/9902A/9901A with optional GPIB)

(GPT-9904 with optional GPIB)

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

\* AC Withstanding short circuit current > 200mA

<b>AC WITHSTANDING</b>	
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
<b>DC WITHSTANDING</b>	
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		
<b>INSULATION RESISTANCE</b>			
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)		
<b>GROUND BOND</b>			
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		
<b>MEMORY</b>			
Single Step Memory	MANU : 100 blocks		
Automatic Testing Memory	AUTO : 100 blocks, menu per auto : 16		
<b>INTERFACE</b>			
Rear Output	Standard		
RS232	Standard		
USB (Device)	Standard		
GPIB	Option		
Remote Terminal (Front)	Standard		
SIGNAL IO	Standard		

<b>GENERAL</b>	
Display	240 x 64 dot matrix LED back light LCD
Power Source	AC100V/120V/220V/230V $\pm$ 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:  $\pm$  (100ppm + 20ms)

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