

GPT-15012 Specifications

The specifications apply when the GPT-15012 is powered on for at least 30 minutes under +15°C~+35°C

GPT-15012 (Front)



GPT-15012 (Rear)



(GPIB and LAN is available for optional)

Model \ Func.	AC Withstanding	DC Withstanding	Insulation Resistance	Ground Bond	Ground Continuity
GPT-15012	-----	12kV	50GΩ	-----	-----

DC WITHSTANDING	
Output-Voltage Range	0.050kV~12.00kV
Output-Voltage Resolution	1V
Output-Voltage Accuracy	± (1% of setting + 5V) [no load]
Maximum Rated Load	120W (12kV/10mA)
Maximum Rated Current	10mA (0.5kV < V ≤ 12kV) 2mA (0.05kV ≤ V ≤ 0.5kV)
Voltage Regulation	± (1% + 5V) [maximum rated load → no load]
Voltmeter Accuracy	± (1% of reading + 5V)
Current Measurement Range	1μA~10.00mA
Current Best Resolution	0.1μA / 1μA / 10μA
Current Measurement Accuracy	±(1.5% of reading + 3μA) when I Reading < 1mA ±(1.5% of reading + 30μA) when I Reading ≥ 1mA
Current Offset	5μA Maximum
Window Comparator Method	Yes
ARC Detect	Yes
RAMP UP (Rise Time)	0.1s~999.9s
RAMP DOWN (Fall Time)	0.0s~999.9s
TIMER (Test Time)	OFF, 0.3s~999.9s
TIMER Accuracy	±(100ppm + 20ms)
WAIT TIME	0.0s~999.9s
GND	ON/OFF
INSULATION RESISTANCE	
Output Voltage	50V~5000V dc
Output-Voltage Resolution	50V
Output-Voltage Accuracy	± (1% of setting + 5V) [no load]
Resistance Display	
Test Voltage	Display Range
50V ≤ V ≤ 100V	0.1MΩ~ 10.00GΩ
150V ≤ V ≤ 450V	0.1MΩ~ 20.00GΩ
500V ≤ V ≤ 5000V	0.1MΩ~ 50.00GΩ
Resistance Measurement	

Test Voltage	Measurement Range / Accuracy
$50V \leq V \leq 450V$	0.1M Ω ~1M Ω : $\pm(5\%$ of reading + 3 count) 1.1M Ω ~50M Ω : $\pm(5\%$ of reading + 1 count) 50.1M Ω ~2G Ω : $\pm(10\%$ of reading + 1 count)
$500V \leq V \leq 1200V$	0.1M Ω ~1M Ω : $\pm(5\%$ of reading + 3 count) 1.1M Ω ~500M Ω : $\pm(5\%$ of reading + 1 count) 500.1M Ω ~9.999G Ω : $\pm(10\%$ of reading + 1 count) 10G Ω ~50G Ω : $\pm(20\%$ of reading + 1 count)*
$1250V \leq V \leq 5000V$	0.1M Ω ~1M Ω : $\pm(5\%$ of reading + 3 count) 1.1M Ω ~500M Ω : $\pm(5\%$ of reading + 1 count) 500.1M Ω ~9.999G Ω : $\pm(10\%$ of reading + 1 count) 10G Ω ~50G Ω : $\pm(15\%$ of reading + 1 count)*
Voltage Regulation	$\pm(1\% + 5V)$ [maximum rated load \rightarrow no load]
Voltmeter Accuracy	$\pm(1\%$ of reading + 5V)
Short-Circuit Current	10mA max.
Output Impedance	2k Ω
Window Comparator Method	Yes
RAMP UP (Rise Time)	0.1s~999.9s
RAMP DOWN (Fall Time)	0.0s~999.9s
TIMER (Test Time)	OFF, 0.3s~999.9s
TIMER Accuracy	$\pm(100\text{ppm} + 20\text{ms})$
WAIT TIME	0.0s~999.9s
GND	ON/OFF
MEMORY	
Single Step Memory	MANU : 100 blocks
Automatic Testing Memory	AUTO : 100 blocks, manu per auto : 10
INTERFACE	
REMOTE (Front) terminal	Standard
USB host (Front)	Standard
Rear Output	Standard
RS-232C	Standard
USB device	Standard
Signal I/O	Standard
GPIB	Option
LAN	Option
DISPLAY	
	7" color LCD
POWER SOURCE	
	AC 100V~240V $\pm 10\%$, 50Hz/60Hz Power consumption : 1000VA max.
DIMENSION & WEIGHT	
	380(W) x 148(H) x 492(D) mm; Approx. 9.8kg

* NOTE: It is required to implement GND OFFSET action when IR Ground Mode is "ON".

1. When IR Ground Mode is "ON", 50V~1200V the maximum 30G Ω , 1250V~5000V the maximum 10G Ω measurement range is guaranteed.
2. When IR Ground Mode is "ON", test time starts from 0.5 second.