

Intelligent Safety Analyzer



GPT-12000 Series

AC/DC/IR/GB Electrical Safety Analyzer

- 200VA AC Test Capacity
- Comply with IEC 61010-2-034
- 7" TFT LCD & Manual/Auto Mode
- RMS Current Measurement
- Zero Crossing Turn-on Operation
- Controllable Ramp-up & Ramp-down Time
- Capacitive Load Testing Capability up to 47 μ F
- Statistics Function
- Sweep Function for DUT Characteristic Analysis
- USB Storage Available & Rear Panel Output Available
- Interface:RS-232C,USB Host/Device,Signal I/O and GPIB(Opt.)
- Universal Power Input



Model	Function	Output Capacity	AC	DC	IR	GB	Continuity	Rear Output
GPT-12001		200VA	✓				✓	✓
GPT-12002		200VA	✓	✓			✓	✓
GPT-12003		200VA	✓	✓	✓		✓	✓
GPT-12004		200VA	✓	✓	✓	✓	✓	✓

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Simply Reliable

SPECIFICATIONS

AC WITHSTANDING		
Output-Voltage Range	0.050kV~5.000kV	
Output-Voltage Resolution	1V	
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% + 5V) [maximum rated load -- no load]	
Voltmeter Accuracy	±(1% of reading + 5V)	
Current Measurement Range	1μA~40.00mA	
Current Best Resolution	1μA / 10μA	
Current Measurement Accuracy	±(1.5% of reading + 30μA)	
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	
WAIT TIME	0.0s~999.9s	
GND	ON/OFF	
DC WITHSTANDING		
Output-Voltage Range	0.050kV~6.000kV	
Output-Voltage Resolution	1V	
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% + 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	
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	
WAIT TIME	0.0s~999.9s	
GND	ON/OFF	
INSULATION RESISTANCE		
Output Voltage	50V~1200V dc	
Output-Voltage Resolution	50V	
Output-Voltage Accuracy	±(1% of setting + 5V) [no load]	
Resistance Measurement	Test Voltage	Display Range
	50V ≤ V ≤ 100V	0.1MΩ~10.00GΩ
	150V ≤ V ≤ 450V	0.1MΩ~20.00GΩ
	500V ≤ V ≤ 1200V	0.1MΩ~50.00GΩ
	Measurement Range / Accuracy	
	0.1MΩ~1MΩ : ±(5% of reading + 3 count); 1 MΩ~50MΩ : ±(5% of reading + 1 count); 51MΩ~2GΩ : ±(10% of reading + 1 count)	
	0.1MΩ~1MΩ : ±(5% of reading + 3 count); 1 MΩ~500MΩ : ±(5% of reading + 1 count); 501MΩ~9.999GΩ : ±(10% of reading + 1 count); 10GΩ~50GΩ : ±(20% of reading + 1 count)	
Voltage Regulation	±(1% + 5V) [maximum rated load -- no load]	
Voltmeter Accuracy	±(1% of reading + 5V)	
Short-Circuit Current	10mA max.	
Output Impedance	2kΩ	
Window Comparator Method	Yes	
RAMP UP (Rise Time)	0.1s~999.9s	
RAMP DOWN (Fall Time)	0.0s~999.9s	
TIMER (Test Time)*	0.3s~999.9s	
WAIT TIME	0.0s~999.9s	
GND	ON/OFF	
GROUND BOND		
Output-Current	03.00A~32.00A ac	
Output-Current Resolution	0.01A	
Output-Current Accuracy	3A ≤ I ≤ 8A : ±(1% of reading + 0.2A); 8A < I ≤ 32A : ±(1% of reading + 0.05A)	
Test-Voltage	8Vac max (open circuit)	
Test-Voltage Frequency	50Hz/60Hz selectable	
Ohmmeter Measurement Range	1mΩ~650mΩ	
Ohmmeter Measurement Resolution	0.1mΩ	
Ohmmeter Measurement Accuracy	±(1% of reading + 2 mΩ)	
Window Comparator Method	Yes	
TIMER (Test Time)*	0.3s~999.9s	
Test Method	Four Terminal	
GND	ON/OFF	
CONTINUITY TEST		
Output-Current	100mA dc (fixed)	
Ohmmeter Measurement Range	0.10Ω~70.00Ω	
Ohmmeter Measurement Resolution	0.01Ω	
Ohmmeter Measurement Accuracy	±(10% of reading + 2 Ω)	
Window Comparator Method	Yes	
TIMER (Test Time)*	0.3s~999.9s	
MEMORY		
Single Step Memory	MANU : 100 blocks	
Automatic Testing Memory	AUTO : 100 blocks, Manu per auto : 10	
INTERFACE		
Standard (Front)	REMOTE, USB host	
Standard (Rear)	Rear Output, RS-232C, USB device, Signal I/O,	
Option	GPIB	
DISPLAY		
	7" color LCD	
POWER SOURCE		
	AC 100V~240V ± 10%, 50Hz/60Hz; Power consumption : Max. 400VA	
DIMENSIONS & WEIGHT		
	GPT-12004: 380(W) x 148(H) x 454(D) mm; Approx. 15kg ; GPT-12001/12002/12003: 380(W) x 148(H) x 436(D) mm; Approx. 11kg (Max.)	

Note : * TIMER Accuracy: +/- (100ppm+20ms)

Specifications subject to change without notice.

GPT-12000CD1DH

ORDERING INFORMATION

GPT-12004 AC/DC/IR/GB Electrical Safety Analyzer
 GPT-12003 AC/DC/IR Electrical Safety Analyzer
 GPT-12002 AC/DC Electrical Safety Analyzer
 GPT-12001 AC Electrical Safety Analyzer

ACCESSORIES

Quick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, Remote terminal Cable GHT-119 x 1, Test lead GHT-115 x 1 for GPT-12001/12002/12003, Test lead GHT-115 x 1, GTL-215 x 1 for GPT-12004

OPTION

Opt.1 GPIB card Opt.2 LAN card

OPTIONAL ASSESSORIES

GHT-117/GHT-117(EU) High Voltage Adapter Box
 GHT-118/GHT-118(EU) High Voltage/Ground Bond Adapter Box
 GHT-113 High Voltage Test Pistol GRA-440 Rack Adapter Panel (19", 4U)
 GHT-205 High Voltage Test Probe
 GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer
 GTL-246 USB Cable, A-B type, approx. 1.2m
 GTL-248 GPIB Cable, approx. 2m

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