

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
- True 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

NEW

7" LCD



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



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	Measurement Range / Accuracy
	50V ≤ V ≤ 100V 0.1MΩ–10.00GΩ	0.1MΩ–1MΩ : ±(5% of reading + 3 count); 1 MΩ–50MΩ : ±(5% of reading + 1 count); 51MΩ–2GΩ : ±(10% of reading + 1 count)
	150V ≤ V ≤ 450V 0.1MΩ–20.00GΩ	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)
	500V ≤ V ≤ 1200V 0.1MΩ–50.00GΩ	
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		
		380(W) x 148(H) x 454(D) mm; Approx. 15kg

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

OPTIONAL ACCESSORIES

GHT-113	High Voltage Test Pistol	GRA-440	Rack Adapter Panel (19", 4U)
GHT-117	High Voltage Adapter Box		
GHT-118	High Voltage / Ground Bond Adapter Box		
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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