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GT-3660B

Multiple Output Power Supply Tester

Description

The GT-3660B is an automatic power supply tester that can simultaneously load up to 6 PSU output channels. The unit is delivered complete with a simple to use windows software programme. This allows the user to program up to 12 different types of tests and set individual test parameters along with duration times. Test routines can be transferred from the users PC to the non-volatile memory of the GT-3660B. The memory will store up to 24 separate routines. Finished test reports can be printed out directly via the unit's centronics interface meaning that the unit can be used as a stand alone tester. For a permanent soft record the results can also be transferred to a pc. Serial number and model details can be entered. Test information can be exported to Excel and then manipulated to suit your company's report format. For high throughput testing an integrated twin testing fixture is optionally available and ideal for ATX Power Supplies. The Automatic PSU tester is also used for a wide range of other power supplies. The technician can use the molex connectors on the PSU tester's front panel or modify the optional universal test fixture to suit the UUT's particular connectors. If the standard GT-3660B isn't suitable please contact ETPS for a modified version to meet your particular voltage and current ranges.



- User Friendly Software Compatible with Excel
- Automatically Tests up to 12 Parameters
- Print and Save Individual Test Reports
- Front Panel Calibration
- Quick Set-Up Time

Test Functions

The user sets up the unit to automatically step through up to 12 different tests. Tolerance limits are set and a pass/fail is recorded along with the actual measurement. The actual test time and time delay between steps can also be adjusted.

Load Regulation

Combined Regulation

POK, Power Supply On

Power Good/Fail

Over Current Protection

Output Short Circuit

P-P Noise (PARD)

Set-Up/Hold-Up Time

Line Regulation (optional)

Hold-On Adjust

Efficiency

OVP (optional)



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Technical Data

Input Ratings	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
Power (<30mins)	300W	180W	20W	40W	120W	20W
Power (Continuous)	240W	144W	20W	40W	96W	20W
Current	0 - 60A	0 - 30A	0 - 4A	0 - 4A	0 - 40A	0 - 4A
Voltage	+30V	+30V	-30V	-30V	+10V	+30V
CC Mode						
Range	0 - 60A	0 - 30A	0 - 4A	0 - 4A	0 - 40A	0 - 4A
Resolution	15mA	7.5mA	1mA	1mA	10mA	1mA
Accuracy	± 0.5% of (setting + range)					
CR Mode						
Range	0.05 - 200	0.1 - 400	0.75 - 3000	0.75 - 3000	0.075 - 300	0.75 - 3000
Resolution	5mS	2.5mS	0.33mS	0.33mS	3.33mS	0.33mS
Accuracy	± 0.8% of (setting + range)					
CV Mode						
Range	1.2 - 30V	1.2 - 30V	n/a	n/a	n/a	n/a
Resolution	7.5mV	7.5mV	n/a	n/a	n/a	n/a
Accuracy	±0.1% of (setting & range)					
DVM						
Range	0 - 30V	0 - 30V	0 - 30V	0 - 30V	0 - 10V	0 - 30V
Resolution	1mV	1mV	1mV	1mV	1mV	1mV
Accuracy	± 0.05% of (reading + range)					
DAM						
Range	0 - 60A	0 - 30A	0 - 6A	0 - 6A	0 - 60A	0 - 6A
Range	10mA	10mA	1mA	1mA	10mA	1mA
Accuracy	± 0.5% of (reading + range)					
PARD						
Bandwidth	200kHz, 20MHz					
Range	500mVp-p (-250mV to +250mV)					
Resolution	1mV, 15Bit					
Accuracy	± 2% of (reading + 5mV)					
Short Test Resistance						
Range	0.055 /0	0.08 /0	0.4 /0	0.4 /0	0.02 /0	0.4 /0
Electronic/Relay						
Protections						
OVP	31.5V	31.5V	31.5V	31.5V	10.5V	31.5V
OCP	63A	31.5A	4.2A	4.2A	42A	4.2A
OPP	315W	189W	21W	42W	126W	21W
RPP	No	No	Yes	Yes	No	Yes
Timing						
PG / PF / Set-Up/ Hold-Up Time	0 - 9999ms (resolution 1µs, 32 bit)					
Accuracy	± 1ms					
Threshold Voltage						
Input Range	Vth 0 - 30Vdc (7.5mV resolution)			Vpok 0 - 5.6Vdc (2.5mV resolution)		
Setting Range	0 - 30Vdc (7.5mV resolution)			0 - 5.6Vdc (2.5mV resolution)		
Accuracy	= 0.05V					
Auto/Step Testing Time						
Tmeas.1 - Tmeas.32	500ms - 20sec (1ms resolution)					
Tdelay.1 - Tdelay.32	0ms - 20sec (1ms resolution)					

Options Table

Code	Description
/9906.....	Integrated twin test fixture with built in source for OVP testing
/9932.....	Remote control key pad which allows file selection and test start and stop
/15.....	Unit modified to enable an external electronic load to be connected. This increases the number of channels that can be simultaneously loaded from 6 to 7