

OVP/Short Circuit Tester



OVP/SHORT CIRCUIT TESTER Model 80612

It is a specially designed module to enhance the system testing capability of Chroma 8000 Series Power Supply Auto Test System.

Chroma OVP/Short circuit tester provides model 80612 versatile tool for OVP / UVP / Short circuit. Its unique programmable impedance makes it ideal to simulate OV / UV situation for all types of power supplies.

When performing OVP test, the Load and OVP source relays are closed. So the DC voltage coming from the DC source is fed to the UUT output and is increased step by step to check the OVP trip point.

When performing the short circuit test, the short circuit relay and Load relay are closed to simulate the short circuit condition, and then it can measure the short current I_{peak} and I_{DC} .

Since this is a specially designed module, it can be controlled by any system through RS-485 Bus.

Model 80612

Key Features:

- An internal short circuit relay that provides short circuit test
- OVP/UVP test for trip point and trip time
- 6 pairs of Short control ports that provide options to control external short circuit relays when it is required
- 6 pairs Prog. resistors that supply resistances when testing OVP/ UVP
- 6 pairs of load input ports for short circuit test and OVP/UVP test
- An internal meas provides user to measure short current I_{peak} and I_{DC}
- An OVP source input port to connect external DC source when testing OVP
- A sense output connector that provides feedback to external DC source for remote sensing
- A RS-485 port for communicating with PC
- A smart cover located on the top of internal short circuit relay. Users can easily remove the cover and replace the internal short circuit relay in case that the relay runs out of its life



Chroma

SPECIFICATIONS

Model	80612
External Short control Relay	
Input channel	6 channels
Rating	0.5 Amps @ 30VDC
Internal Short Relay	
Input channel	6 channels
Input voltage	0~300VDC
Input impedance	< 0.05 ohm
Operation time	40ms max.
Release time	35ms max.
Current rating	200A peak max 30Amps continuous @ 28VDC 30Amps up to 300VAC, 50/60Hz
Programmable Resistor	
Input channel	6 channels
Voltage range	16VDC (input 1V min) 80VDC (input 5V min)
Current	160mA max
DAC resolution	12 bits
16V range resistor	100~4K, 1K~40K, 10K~1M
80V range resistor	3.25K~130K, 10K~1M
Measurement	
Current Range	200Apk for inrush current / I_{peak} 40Apk / 20Apk / 10Apk for I_{DC} by auto range
Resolution	16 bits
Power Requirement	
Voltage & Freq.	115VAC / 230VAC ($\pm 10\%$), 60Hz / 50Hz
Current	0.5 amp for 110VAC, 0.25 amp for 230VAC
Dimension	88(H)*482(W)*452(D)
Weight	9.0 Kgs
Other	
Interface	RS-485
EMC & Safety	CE

Developed and Manufactured by:

CHROMA ATE INC.

Head Office:
43, Wu-Chuan Road, Wu-Ku Ind. Park,
Wu-Ku, Taipei Hsien, Taiwan.
Tel: +886-2-2298-3855
Fax: +886-2-2298-3596
<http://www.chromaate.com>

China
8F, No. 4, Nanyou Tian An
Industrial Estate Shenzhen,
China.
Post Code:518052
Tel: +86-755-2664-4598
Fax: +86-755-2641-9620

U.S.A.
7 Chrysler Irvine
CA 92618
Tel: +1-49-421-0355
Fax: +1-949-421-0353

Europe
Max Planckstraat 4
6716 BE Ede
The Netherlands
Tel: +31-318-648282
Fax: +31-318-648288

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