

High Slew Rate DC Electronic Load 63472

Model No.



- Customized adapter boards for different types of VRMs, CPU sockets or Power Pod
- Optional Bias voltage source for CPU adapter for embedded testing scenarios
- Full protection: OP,OC and OV protection
- Versatile remote controller
- GPIB & RS-232 interfaces
- LabView Soft-panel

High Slew Rate Load Control & Measurement Unit Model 63472 200W/ 1200A/μs

KEY FEATURES

- Designed for VRM's, embedded VRD's and Power Pod testing
- Static Loading- Power rating: 200W
Voltage range: 0-2V
Current range: 150A
- Dynamic Loading- Current range: 150A
Slew rate: Up to 1200A/μs
Dynamic Freq: Up to 1MHz
Duty control: 10-90%
- Built-in and user definable VID tables for flexibility
- Dynamic VID simulation
- Current&Voltage monitor output
- Measurements- Static mode: Vdc, Idc
Dynamic mode: Vpk+, Vpk-
Dynamic VID: Vpk check, Vdc for last VID

As a result of the exploding increase in CPU complexity according to Moore's Law, all modern processors require a low voltage with high instantaneous current power source. Voltage Regulator Modules, along with embedded solutions, are the only way to correctly supply these currents. A need to simulate this low voltage, high current with fast di/dt loading has become more important than ever. Every main board design using a VRM, Intel®Itanium™ power pod or an embedded regulator (VRD) will need processor voltage supply performance qualification.

Integrating Intel®'s latest high di/dt test technology with years of experience in the design and manufacture of highly accurate, precision DC load and measurement instrumentation, the Chroma 63472 electronic load is your total solution for qualifying all main board Intel® processor power performance requirements!

The Chroma 63472 electronic load provides 150A of static, DC load with 150A of dynamic load - featuring up to 1200A/μs slew rate! This fully controllable capability, along with Dynamic VID

control and sophisticated measurement functions, comprises a total solution - all in one unit. Gone is the need for the individual equipment stack of traditional test setups, saving precious bench space and expense. The Chroma 63472 can replace a function generator, oscilloscope, DVM, DC load bank, in addition to any customized dynamic load and VID control circuitry.

Similarly, the Chroma 63472 makes an economical choice for all your production line test requirements. From industry data, more than 5% of today's main boards fail due to on-board converter failures. The Chroma 63472 can quickly identify suspect units in production - well ahead of an expensive service call.

ORDERING INFORMATION

- 63472** : High Slew Rate Load Control & Measurement Unit
- A634701** : Remote controller for 63472
- A634702** : Transient Load
- A634703** : Test fixture for Power Pod
- A634704** : Test fixture for VRM10.0
- A634705** : Socket 478 Interposer Card
- A634706** : Socket 604 Interposer Card of Single Voltage
- A634707** : Socket 604 Interposer Card of Dual Voltage
- A634708** : Socket 604 Interposer Card of Triple Voltage
- A634709** : 19" Rack Mounting Kit
- A634710** : Test fixture for MVR Rev 1.4
- A634711** : LGA 775 Interposer Card (6 Bits)
- A634712** : Test fixture for VRM11.0
- A630002** : GPIB Interface for Model 6304/6314/6340 Mainframe

SPECIFICATIONS

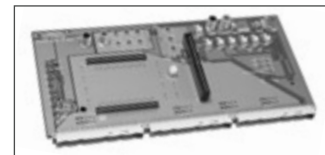
Model	63472	
Static Load Section		
Power	200W	
Current		
Range	0-150A	
Resolution	12bits	
Accuracy	0.1% + 0.2%F.S.	
Voltage		
Range	0-2V	
Min. Voltage	0.5V @ full load	
Protection		
OCP	165A	
OVP	2.1V	
Dynamic Load Section		
Current Range	0-150A	
Dynamic-clock	1MHz(10-90%)	
Resolution	1%	
Accuracy	100 ppm	
Slew Rate	100A/μs-1000A/μs	
Min. rise time	100ns	
TTL Output		
Level	Low (<0.8V), High (>3.15V)	
VID code	6 bits	
OUTEN	Yes	
Aux. Power		
Outputs	+12V /+5V	
Current	0.5A / 0.3A	
Power	7.5W total	
Load regulation	5%	
Measurement Section		
Input Section		
Input Voltage Read Back		
Range	15V / 58V (Auto)	
Resolution	16bits	
Accuracy	0.05% + 0.05%F.S.	
Input Current Read Back		
Range	0.5V(refer to 5A)/2.5V(refer to 25A) (Auto)	
Resolution	16bits	
Accuracy	0.1% + 0.1%F.S.	
Static Mode		
Voltage Read Back		
Range	0-2V	
Resolution	16bits	
Accuracy	0.05% + 0.05%F.S.	
Current Read Back		
Range	0-150A	
Resolution	16bits	
Accuracy	0.1% + 0.1%F.S.	
Dynamic Mode		
I Monitor Read Back		
Range	0-0.536V (refer to 150A)	
Resolution	12bits	
Accuracy	0.5% + 0.2%F.S.	
Peak Voltage		
I Monitor Read Back		
Range	0-2V	
Resolution	12bits	
Accuracy	0.5% + 0.2%F.S.	
Dynamic VID		
Voltage Read Back		
Range	0-2V	
Resolution	12bits	
Accuracy	0.5% + 0.2%F.S.	
Dynamic VID Control		
Dwell Time		
Range	5μs-10ms	
Resolution	1μs	
Others		
Interface		
RS-232	For A634701 Remote Controller or PC Control	
GPIB	Optional	
Dimension (H x W x D)	133.35 x 428.3 x 380 mm / 5.25 x 16.86 x 14.96 inch	
Weight	16.7 kg / 36.78 lbs	



A634701 : Remote Controller
A634702 : Transient Load



A634703 : Test fixture for Power Pod



A634704 : Test fixture for VRM10.0



A634705 : Adapter Board for Socket 478