



Chroma high slew rate load model 6340 series provides total solution for VRM testing. The VRM is introduced to substitute the power supply when micro processor draws a burst of current from it. Chroma high slew rate load model 6340 series is capable to simulate from 100A/uS to 300A/uS transit loading. And its voltage, current measurement and monitoring functions makes it an ideal test instrument for the designers or the manufacturers of high speed power delivery devices.

VRM via oscilloscope. In addition, the peak voltage measurement provides numerical reading of the overshoot and under-shoot voltage of the UUT. Thus, users may specify the readings and perform GO/NG test.

Chroma model 6340 series loads build-in fan speed control to minimize the audio noise. The self-diagnosis routine and the full protections against OPP, OCP, OVP, OTP and reverse polarity ensure the quality and reliability for even the most demanding engineering testing and ATS application.

## High Slew Rate DC Electronic Load

Model 6345 / 6346 / 6347

**1250W**

### KEY FEATURES

- Power Rating: 625W,1250W
- Voltage range: 0.8-50V
- Current range: 150A to 300A
- Slew rate: Up to 300A/uS (6347)
- CC load mode
- Dynamic loading: Up to 100KHz
- Voltage / Current measurement
- Voltage / Current monitor output
- Peak voltage detection
- Capable of testing up to 10 VRMs at a time
- Current share measurement
- Full protection: OP,OC,OV,OT, and reverse protection
- GPIB & RS-232C interface

The model 6340 family offers 4 models with power ranging from 625 watts to 1250 watts, current from 150A to 300A, and slew rate control from 100A/uS to 300A/uS at dynamic frequency up to 100KHz. All the loading and slew rate are programmable and can be controlled via front panel operation or RS-232C/GPIB interface.

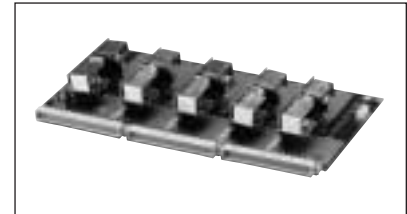
The test fixture can be fabricated upon customers' specifications. It can be configured for 5 or 10 VRMs. With the individual channel current measurement, it allows users checking the current sharing characteristics of the VRM.

Chroma model 6340 series loads can draw its rated current under very low voltage ( 0.8V typical ). Even under the highest specified slew rate, it still can work under only 1.5V input voltage. The low voltage operating capability pervade the future trend of lowering VRM output voltage.

Voltage and current monitoring outputs allow users observe the loading current and the output voltage of

### ORDERING INFORMATION

- 6345** : 100A/uS high slew rate load
- 6346** : 150A/uS high slew rate load
- A630002** : 6345/6346 GPIB option board
- A634002** : Fixture for 60 pin VRM
- A634003** : Fixture for 40 pin VRM
- A634004** : Fixture for 62 pin VRM



**A634003** : Fixture for 40 pin VRM

### SPECIFICATIONS

Model	6345	6346	6347*
<b>Power</b>	125W/625W	125W/625W	250W/1250W
<b>Current</b>	30A/150A	30A/150A	60A/300A
<b>Voltage</b>	10V/50V	10V/50V	10V/50V
<b>Min. operating voltage</b>	0.8V*(typical)	0.8V*(typical)	0.8V*(typical)
<b>Constant Current mode</b>			
<b>Range</b>	0-30A/0-150A	0-30A/0-150A	0-60A/0-300A
<b>Resolution</b>	7.5mA/37.5mA	7.5mA/37.5mA	15mA/75mA
<b>Accuracy</b>	0.5%+0.2%FS	0.5%+0.2%FS	0.5%+0.2%FS
<b>Dynamic mode</b>			
<b>Min. operating voltage</b>	1V(typical)	1V(typical)	1V(typical)
<b>Timing</b>			
<b>T1&amp;T2</b>	5uS-10mS / 1mS-30S	5uS-10mS / 1mS-30S	5uS-10mS / 1mS-30S
<b>Accuracy</b>	1uS+100ppm / 1mS+100ppm	1uS+100ppm / 1mS+100ppm	1uS+100ppm / 1mS+100ppm
<b>Slew rate</b>	0.08-20A/uS;0.4-100A/uS	0.12-30A/uS;0.6-150A/uS	0.16-60A/uS;0.8-300A/uS
<b>Min. rise time</b>	1uS	0.5uS	0.5uS
<b>Current</b>			
<b>Overshoot</b>	<5%	<5%	<5%
<b>Measurement</b>			
<b>Voltage read back</b>			
<b>Range</b>	10V/50V (Auto)	10V/50V (Auto)	10V/50V (Auto)
<b>Resolution</b>	0.33mV/1.67mV	0.33mV/1.67mV	0.33mV/1.67mV
<b>Accuracy</b>	0.05%+0.05%FS	0.05%+0.05%FS	0.05%+0.05%FS
<b>V_monitor accuracy</b>	2%FS	2%FS	2%FS
<b>Voltage peak detector</b>			
<b>Range</b>	10V/50V (Auto)	10V/50V (Auto)	10V/50V (Auto)
<b>Resolution</b>	2.5mV/12.5mV	2.5mV/12.5mV	2.5mV/12.5mV
<b>Accuracy</b>	0.1%+20mV/0.1%+100mV	0.1%+20mV/0.1%+100mV	0.1%+20mV/0.1%+100mV
<b>Current read back</b>			
<b>Range</b>	30A/150A	30A/150A	60A/300A
<b>Resolution</b>	1mA/5mA	1mA/5mA	2mA/10mA
<b>Accuracy</b>	0.2%+0.1%FS	0.2%+0.1%FS	0.2%+0.1%FS
<b>I_share accuracy</b>	1%FS	1%FS	1%FS
<b>I_monitor accuracy</b>	2%FS	2%FS	2%FS
<b>General</b>			
<b>EMC &amp; Safety</b>	CE	CE	CE

Product availability info:  
\*Model 6347 will be available in 2002.