

# Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based at Aldermaston in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

Test Equipment Solutions Ltd  
Unit 3 Zodiac House  
Calleva Park  
Aldermaston  
Berkshire  
RG7 8HN

T: 01183 800 800  
F: 01183 800 804

Email: [info@TestEquipmentHQ.com](mailto:info@TestEquipmentHQ.com)  
Web: [www.TestEquipmentHQ.com](http://www.TestEquipmentHQ.com)



# High Power DC Electronic Load

Model No.

# 63200 Series



- Measurement: Voltage / Current / Power/ Resistance
- Large LED/LCD display
- External loading waveform simulation
- Short circuit simulation and short circuit current measurement
- Full protection: OP, OC, OV, OT and reverse protection
- Versatile remote controller
- GPIB & RS-232 interfaces

The Chroma Electronic Loads 63200 series are designed for DC power source, power electronic devices and components testing. The high power rating, parallel and synchronization capabilities make them the ideal tool for testing the high power UUT such as SMR, UPS, battery, and fuel cell.

The 63200 series offers 10 different models with power range from 2600 watts to 15600 watts, current from 50A to 1000A and up to 500V input voltage. The 4 load modes setup provide different load simulations for various application occasions. The CC/CR modes are designed to test constant voltage type of power supply. CV mode is used to test battery charger and current source, while CP mode is ideal for battery testing by simulating the real discharge curve.

The 63200 series can draw its rated current under very low voltage (1V typical) even under the highest specified slew rate. This unique feature guarantees the best loading performance to a low voltage power supply. With the unique external waveform simulation and Master /Slave control capability, the 63200 series electronic loads allow users to parallel and synchronize more than one load together from an internal or external loading control signal. This feature provides unlimited load simulation and the possibility of power expansion.

The 63200 series also supply necessary measurement functions and short circuit simulation that extend the test capability for even the most demanding engineering tests and ATE applications. With the LCD display and rotary knob, the 63200 electronic loads offer versatile front panel operations. Users are able to control the 63200 family remotely via GPIB, RS-232 or APG (Analog Programming) interface.

Chroma 63200 series loads are built 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 best quality and reliability.

## DC Electronic Load Model 63200 Series

### KEY FEATURES

- Power Rating: 2.6kW, 5.2kW, 6.5kW, 10.4kW, 14.5kW, 15.6kW
- Voltage range: 0-80V/0-500V
- Current range: Up to 1000A
- CC, CR, CV, CP load modes
- Master/Slave paralleling control mode, allow synchronous load control under static and dynamic loading mode
- Dynamic loading: Up to 20kHz
- Only need 1V to draw rated current
- Programmable slew rate, up to 41A/μs

### SPECIFICATIONS-1

| Model                           | 63201                                       |                          | 63202                                       |                           | 63203                                       |                          |
|---------------------------------|---|--------------------------|---|---------------------------|---|--------------------------|
| <b>Power*1</b>                  | 260W  | 2600W                    | 260W  | 2600W                     | 520W  | 5200W                    |
| <b>Current</b>                  | 0-30A                                       | 0-300A                   | 0-5A  | 0-50A                     | 0-60A                                       | 0-600A                   |
| <b>Voltage</b>                  | 0-80V                                       |                          | 0-500V                                      |                           | 0-80V                                       |                          |
| <b>Min. Operating voltage</b>   | 0.5V @ 15A<br>1V @ 30A                      | 0.5V @ 150A<br>1V @ 300A | 1.25V @ 2.5A<br>2.5V @ 5A                   | 1.25V @ 25A<br>2.5V @ 50A | 0.5V @ 30A<br>1V @ 60A                      | 0.5V @ 300A<br>1V @ 600A |
| <b>Constant Current mode</b>    |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-30A                                       | 0-300A                   | 0-5A  | 0-50A                     | 0-60A                                       | 0-600A                   |
| <b>Resolution</b>               | 7.5mA                                       | 75mA                     | 1.25mA                                      | 12.5mA                    | 15mA  | 150mA                    |
| <b>Accuracy</b>                 | 0.1%+0.1%F.S.                               | 0.2%+0.1%F.S.            | 0.1%+0.1%F.S.                               | 0.2%+0.1%F.S.             | 0.1%+0.1%F.S.                               | 0.2%+0.1%F.S.            |
| <b>Constant Resistance Mode</b> |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0.005-20ohm                                 | 0.25-1000ohm             | 0.25-1000ohm                                | 10-40000ohm               | 0.0025-10ohm                                | 0.125-500ohm             |
| <b>Resolution</b>               | 12bits                                      | 12bits                   | 12bits                                      | 12bits                    | 12bits                                      | 12bits                   |
| <b>Accuracy*2</b>               | 0.6mho+0.35%                                | 0.9mho+0.1%              | 0.012mho+0.35%                              | 0.04mho+0.1%              | 1.2mho+0.35%*4                              | 1.2mho+0.1%              |
| <b>Accuracy*3 (Vin&gt;7V)</b>   | 0.6mho+0.35%                                | 0.012mho+0.35%           | 0.012mho+0.35%                              | 112.5u mho+0.35%          | 1.2mho+0.35%                                | 0.024mho+0.35%           |
| <b>Constant Voltage mode</b>    |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-16V                                       | 0-80V                    | 0-125V                                      | 0-500V                    | 0-16V                                       | 0-80V                    |
| <b>Resolution</b>               | 4mV   | 20mV                     | 31mV  | 125mV                     | 4mV   | 20mV                     |
| <b>Accuracy</b>                 | 0.05%+0.1%F.S.                              | 0.05%+0.1%F.S.           | 0.05%+0.1%F.S.                              | 0.05%+0.1%F.S.            | 0.05%+0.1%F.S.                              | 0.05%+0.1%F.S.           |
| <b>Constant Power mode</b>      |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0.6-260W                                    | 6-2600W                  | 0.625-260W                                  | 6.25-2600W                | 1.2-520W                                    | 12-5200W                 |
| <b>Resolution</b>               | 7.5mW                                       | 75mW                     | 3.125mW                                     | 31.25mW                   | 22.5mW                                      | 225mW                    |
| <b>Accuracy</b>                 | 0.5%+0.5%F.S.                               | 0.5%+0.5%F.S.            | 0.5%+0.5%F.S.                               | 0.5%+0.5%F.S.             | 0.5%+0.5%F.S.                               | 0.5%+0.5%F.S.            |
| <b>Dynamic mode</b>             |   |                          |   |                           |   |                          |
| <b>Timing</b>                   |   |                          |   |                           |   |                          |
| <b>T1&amp;T2</b>                | 0.025-10ms                                  | 1ms-30s                  | 0.025-10ms                                  | 1ms-30s                   | 0.025-10ms                                  | 1ms-30s                  |
| <b>Resolution</b>               | 1μs   | 1ms                      | 1μs   | 1ms                       | 1μs   | 1ms                      |
| <b>Accuracy</b>                 | 1μs+100ppm                                  | 1ms+100ppm               | 1μs+100ppm                                  | 1ms+100ppm                | 1μs+100ppm                                  | 1ms+100ppm               |
| <b>Slew rate</b>                | 5mA-1.25A/μs                                | 50mA-12.5A/μs            | 0.8mA-0.2A/μs                               | 8mA-2A/μs                 | 10mA-2.5A/μs                                | 100mA-25A/μs             |
| <b>Resolution</b>               | 5mA/μs                                      | 50mA/μs                  | 0.8mA/μs                                    | 8mA/μs                    | 10mA/μs                                     | 100mA/μs                 |
| <b>Min. Rise Time</b>           | 24μs (typical)                              |                          | 24μs (typical)                              |                           | 24μs (typical)                              |                          |
| <b>Current</b>                  |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-30A                                       | 0-300A                   | 0-5A  | 0-50A                     | 0-60A                                       | 0-600A                   |
| <b>Resolution</b>               | 7.5mA                                       | 75mA                     | 1.25mA                                      | 12.5mA                    | 15mA  | 150mA                    |
| <b>Accuracy</b>                 | 0.4%F.S.                                    |                          | 0.4%F.S.                                    |                           | 0.4%F.S.                                    |                          |
| <b>Measurement</b>              |   |                          |   |                           |   |                          |
| <b>Voltage Read Back</b>        |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-16V                                       | 0-80V                    | 0-125V                                      | 0-500V                    | 0-16V                                       | 0-80V                    |
| <b>Resolution</b>               | 15bits                                      | 15bits                   | 15bits                                      | 15bits                    | 15bits                                      | 15bits                   |
| <b>Accuracy</b>                 | 0.05%+0.05%F.S.                             |                          | 0.05%+0.05%F.S.                             |                           | 0.05%+0.05%F.S.                             |                          |
| <b>Current Read Back</b>        |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-30A                                       | 0-300A                   | 0-5A  | 0-50A                     | 0-60A                                       | 0-600A                   |
| <b>Resolution</b>               | 15bits                                      | 15bits                   | 15bits                                      | 15bits                    | 15bits                                      | 15bits                   |
| <b>Accuracy</b>                 | 0.1%+0.1%F.S.                               |                          | 0.1%+0.1%F.S.                               |                           | 0.1%+0.1%F.S.                               |                          |
| <b>Power Read Back</b>          |   |                          |   |                           |   |                          |
| <b>Range</b>                    | 0-260W                                      | 0-2600W                  | 0-260W                                      | 0-2600W                   | 0-520W                                      | 0-5200W                  |
| <b>Resolution</b>               | 15bits                                      | 15bits                   | 15bits                                      | 15bits                    | 15bits                                      | 15bits                   |
| <b>Accuracy</b>                 | 0.3%+0.3%F.S.                               |                          | 0.3%+0.3%F.S.                               |                           | 0.3%+0.3%F.S.                               |                          |
| <b>General</b>                  |   |                          |   |                           |   |                          |
| <b>Short Circuit</b>            |   |                          |   |                           |   |                          |
| <b>current</b>                  | 30A   | 300A                     | 5A  | 50A                       | 60A   | 600A                     |
| <b>Dimension (H x W x D)</b>    | 177 x 440 x 589 mm / 6.9 x 17.3 x 23.2 inch |                          | 177 x 440 x 589 mm / 6.9 x 17.3 x 23.2 inch |                           | 353 x 440 x 589 mm / 6.9 x 17.3 x 23.2 inch |                          |
| <b>Weight</b>                   | 30 kg / 66.08 lbs                           |                          | 30 kg / 66.08 lbs                           |                           | 62 kg / 136.56 lbs                          |                          |
| <b>Safety &amp; EMC</b>         | CE  |                          | CE  |                           | CE  |                          |

• Continued on next page →

Solar Cell Test Equipment  
Semiconductor/IC Test Equipment  
LED Test Equipment  
LCD/LCM Test Equipment  
Video & Color Test Equipment  
Optical Inspection Equipment  
Power Supply Test Equipment  
Passive Component Test Instruments  
Electrical Safety Test Instruments  
General Purpose Test Instruments  
PXI Instruments & Systems

| SPECIFICATIONS-2                |  |                |  |                |  |                |
|---------------------------------|--|----------------|--|----------------|--|----------------|
| Model                           | 63204  |                | 63205  |                | 63206  |                |
| Power*1                         | 520W   | 5200W          | 650W   | 6500W          | 1040W  | 10400W         |
| Current                         | 0-10A  | 0-100A         | 0-18A  | 0-180A         | 0-60A  | 0-600A         |
| Voltage                         | 0-500V                                       |                | 0-80V  |                | 0-80V  |                |
| Min. Operating voltage          | 1.25V @ 5A                                   | 1.25V @ 50A    | 0.5V @ 9A                                    | 0.5V @ 90A     | 0.5V @ 30A                                     | 0.5V @ 300A    |
|                                 | 2.5V @ 10A                                   | 2.5V @ 100A    | 1V @ 18A                                     | 1V @ 180A      | 1V @ 60A                                       | 1V @ 600A      |
| <b>Constant Current mode</b>    |  |                |  |                |  |                |
| Range                           | 0-10A  | 0-100A         | 0-18A  | 0-180A         | 0-60A  | 0-600A         |
| Resolution                      | 2.5mA  | 25mA           | 4.5mA  | 45mA           | 15mA   | 150mA          |
| Accuracy                        | 0.1%+0.1%F.S.                                | 0.2%+0.1%F.S.  | 0.1%+0.2%F.S.                                | 0.1%+0.2%F.S.  | 0.1%+0.2%F.S.                                  | 0.1%+0.2%F.S.  |
| <b>Constant Resistance Mode</b> |  |                |  |                |  |                |
| Range                           | 0.125-500ohm                                 | 5-20000ohm     | 0.008-32ohm                                  | 0.4-1600ohm    | 0.0025-10ohm                                   | 0.125-500ohm   |
| Resolution                      | 12bits                                       | 12bits         | 12bits                                       | 12bits         | 12bits   | 12bits         |
| Accuracy*2                      | 0.24mho+0.1%                                 | 0.08mho+0.1%   | 0.375mho+0.35%                               | 0.75mho+0.1%   | 1.2mho+0.35% *4                                | 1.2mho+0.1%    |
| Accuracy*3 (Vin>7V)             | 0.24mho+0.1%                                 | 225u mho+0.35% | 0.375mho+0.35%                               | 0.075mho+0.35% | 1.2mho+0.35%                                   | 0.024mho+0.35% |
| <b>Constant Voltage mode</b>    |  |                |  |                |  |                |
| Range                           | 0-125V                                       | 0-500V         | 0-16V  | 0-80V          | 0-16V  | 0-80V          |
| Resolution                      | 31mV   | 125mV          | 4mV  | 20mV           | 4mV  | 20mV           |
| Accuracy                        | 0.05%+0.1%F.S.                               | 0.05%+0.1%F.S. | 0.05%+0.1%F.S.                               | 0.05%+0.1%F.S. | 0.05%+0.1%F.S.                                 | 0.05%+0.1%F.S. |
| <b>Constant Power mode</b>      |  |                |  |                |  |                |
| Range                           | 1.25-520W                                    | 12.5-5200W     | 0.36-650W                                    | 3.6-6500W      | 1.2-1040W                                      | 12-10400W      |
| Resolution                      | 6.25mW                                       | 62.5mW         | 4.6mW  | 46mW           | 22.5mW   | 225mW          |
| Accuracy                        | 0.5%+0.5%F.S.                                | 0.5%+0.5%F.S.  | 0.5%+0.5%F.S.                                | 0.5%+0.5%F.S.  | 0.5%+0.5%F.S.                                  | 0.5%+0.5%F.S.  |
| <b>Dynamic mode</b>             |  |                |  |                |  |                |
| <b>Timing</b>                   |  |                |  |                |  |                |
| T1&T2                           | 0.025-10ms                                   | 1ms-30s        | 0.025-10ms                                   | 1ms-30s        | 0.025-10ms                                     | 1ms-30s        |
| Resolution                      | 1µs  | 1ms            | 1µs  | 1ms            | 1µs  | 1ms            |
| Accuracy                        | 1µs+100ppm                                   | 1ms+100ppm     | 1µs+100ppm                                   | 1ms+100ppm     | 1µs+100ppm                                     | 1ms+100ppm     |
| Slew rate                       | 1.6mA-0.4A/µs                                | 16mA-4A/µs     | 3mA-0.75A/µs                                 | 30mA-7.5A/µs   | 10mA-3A/µs                                     | 100mA-25A/µs   |
| Resolution                      | 1.6mA/µs                                     | 16mA/µs        | 3mA/µs                                       | 30mA/µs        | 12mA/µs  | 100mA/µs       |
| Min. Rise Time                  | 24µs (typical)                               |                | 24µs (typical)                               |                | 20µs (typical)                                 |                |
| <b>Current</b>                  |  |                |  |                |  |                |
| Range                           | 0-10A  | 0-100A         | 0-18A  | 0-180A         | 0-60A  | 0-600A         |
| Resolution                      | 2.5mA  | 25mA           | 4.68mA                                       | 46.8mA         | 15mA   | 150mA          |
| Accuracy                        | 0.4%F.S.                                     |                | 0.4%F.S.                                     |                | 0.4%F.S.                                       |                |
| <b>Measurement</b>              |  |                |  |                |  |                |
| <b>Voltage Read Back</b>        |  |                |  |                |  |                |
| Range                           | 0-125V                                       | 0-500V         | 0-16V  | 0-80V          | 0-16V  | 0-80V          |
| Resolution                      | 15bits                                       | 15bits         | 15bits                                       | 15bits         | 15bits   | 15bits         |
| Accuracy                        | 0.05%+0.05%F.S.                              |                | 0.05%+0.05%F.S.                              |                | 0.05%+0.05%F.S.                                |                |
| <b>Current Read Back</b>        |  |                |  |                |  |                |
| Range                           | 0-10A  | 0-100A         | 0-18A  | 0-180A         | 0-60A  | 0-600A         |
| Resolution                      | 15bits                                       | 15bits         | 15bits                                       | 15bits         | 15bits   | 15bits         |
| Accuracy                        | 0.1%+0.1%F.S.                                |                | 0.1%+0.1%F.S.                                |                | 0.1%+0.1%F.S.                                  |                |
| <b>Power Read Back</b>          |  |                |  |                |  |                |
| Range                           | 0-520W                                       | 0-5200W        | 0-650W                                       | 0-6500W        | 0-1040W  | 0-10400W       |
| Resolution                      | 15bits                                       | 15bits         | 15bits                                       | 15bits         | 15bits   | 15bits         |
| Accuracy                        | 0.3%+0.3%F.S.                                |                | 0.3%+0.3%F.S.                                |                | 0.3%+0.3%F.S.                                  |                |
| <b>General</b>                  |  |                |  |                |  |                |
| <b>Short Circuit</b>            |  |                |  |                |  |                |
| Current                         | 10A  | 100A           | 18A  | 180A           | 60A  | 600A           |
| Dimension (H x W x D)           | 353 x 440 x 589 mm / 13.9 x 17.3 x 23.2 inch |                | 353 x 440 x 589 mm / 13.9 x 17.3 x 23.2 inch |                | 443.7 x 440 x 589 mm / 17.5 x 17.3 x 23.2 inch |                |
| Weight                          | 62 kg / 136.56 lbs                           |                | 62 kg / 136.56 lbs                           |                | 90 kg / 198.24 lbs                             |                |
| Safety & EMC                    | CE   |                | CE   |                | CE   |                |

## Soft Panel

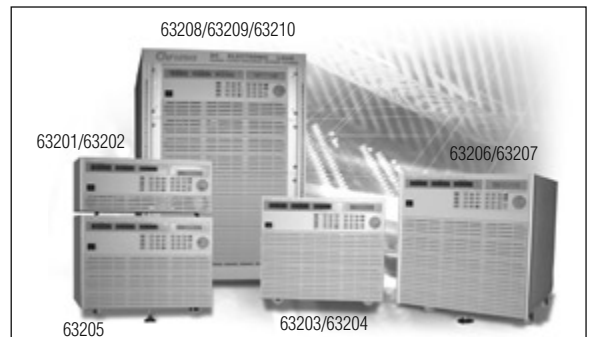


Battery Discharge Test



OCP Test

## 63200 Series DC Electronic Load Family



# High Power DC Electronic Load

Model No.

# 63200 Series

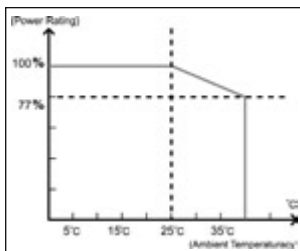
| SPECIFICATIONS-3                |  |                |  |                |   |                |   |                  |
|---------------------------------|--|----------------|--|----------------|---|----------------|---|------------------|
| Model                           | 63207  |                | 63208  |                | 63209                                     |                | 63210                                     |                  |
| <b>Power *1</b>                 | 1040W  | 10400W         | 1560W  | 15600W         | 1560W                                     | 15600W         | 1450W                                     | 14500W           |
| <b>Current</b>                  | 0-30A  | 0-300A         | 0-60A  | 0-600A         | 0-100A                                    | 0-1000A        | 0-15A                                     | 0-150A           |
| <b>Voltage</b>                  | 0-80V  |                | 0-80V  |                | 0-80V                                     |                | 0-500V                                    |                  |
| <b>Min. Operating voltage</b>   | 0.5V @ 15A                                     | 0.5V @ 150A    | 0.5V @ 30A                                   | 0.5V @ 300A    | 0.5V @ 50A                                | 0.5V @ 500A    | 1.25V @ 7.5A                              | 1.25V @ 75A      |
|                                 | 1V @ 30A                                       | 1V @ 300A      | 1V @ 60A                                     | 1V @ 600A      | 1V @ 100A                                 | 1V @ 1000A     | 2.5V @ 15A                                | 2.5V @ 150A      |
| <b>Constant Current mode</b>    |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-30A  | 0-300A         | 0-60A  | 0-600A         | 0-100A                                    | 0-1000A        | 0-15A                                     | 0-150A           |
| <b>Resolution</b>               | 9.3mA  | 75mA           | 15mA   | 150mA          | 31.25mA                                   | 250mA          | 3.75mA                                    | 37.5mA           |
| <b>Accuracy</b>                 | 0.1%+0.2%F.S.                                  | 0.1%+0.2%F.S.  | 0.1%+0.2%F.S.                                | 0.1%+0.2%F.S.  | 0.1%+0.2%F.S.                             | 0.1%+0.2%F.S.  | 0.1%+0.1%F.S.                             | 0.2%+0.1%F.S.    |
| <b>Constant Resistance Mode</b> |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0.005-20ohm                                    | 0.25-1000ohm   | 0.0025-10ohm                                 | 0.125-500ohm   | 0.0015-6ohm                               | 0.075-300ohm   | 0.083-333ohm                              | 3.3-1320ohm      |
| <b>Resolution</b>               | 12bits   | 12bits         | 12bits                                       | 12bits         | 12bits                                    | 12bits         | 12bits                                    | 12bits           |
| <b>Accuracy *2</b>              | 0.6mho+0.35%                                   | 0.9mho+0.1%    | 1.2mho+0.35% *4                              | 1.2mho+0.1%    | 1.2mho+0.35% *4                           | 1.2mho+0.1%    | 0.036mho+0.35%                            | 0.092mho+0.1%    |
| <b>Accuracy *3 (Vin&gt;7V)</b>  | 0.6mho+0.35%                                   | 0.012mho+0.35% | 1.2mho+0.35%                                 | 0.024mho+0.35% | 1.2mho+0.35%                              | 0.024mho+0.35% | 0.036mho+0.35%                            | 337.5u mho+0.35% |
| <b>Constant Voltage mode</b>    |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-16V  | 0-80V          | 0-16V  | 0-80V          | 0-16V                                     | 0-80V          | 0-125V                                    | 0-500V           |
| <b>Resolution</b>               | 4mV  | 20mV           | 4mV  | 20mV           | 4mV                                       | 20mV           | 31mV                                      | 125mV            |
| <b>Accuracy</b>                 | 0.05%+0.1%F.S.                                 | 0.05%+0.1%F.S. | 0.05%+0.1%F.S.                               | 0.05%+0.1%F.S. | 0.05%+0.1%F.S.                            | 0.05%+0.1%F.S. | 0.05%+0.1%F.S.                            | 0.05%+0.1%F.S.   |
| <b>Constant Power mode</b>      |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0.744-1040W                                    | 6-10400W       | 1.2-1560W                                    | 12-15600W      | 2.5-1560W                                 | 20-15600W      | 5-1450W                                   | 50-14500W        |
| <b>Resolution</b>               | 9.3mW  | 75mW           | 22.5mW                                       | 225mW          | 31.25mW                                   | 250mW          | 25mW                                      | 250mW            |
| <b>Accuracy</b>                 | 0.5%+0.5%F.S.                                  | 0.5%+0.5%F.S.  | 0.5%+0.5%F.S.                                | 0.5%+0.5%F.S.  | 0.5%+0.5%F.S.                             | 0.5%+0.5%F.S.  | 0.5%+0.5%F.S.                             | 0.5%+0.5%F.S.    |
| <b>Dynamic mode</b>             |  |                |  |                |   |                |   |                  |
| <b>Timing</b>                   |  |                |  |                |   |                |   |                  |
| <b>T1&amp;T2</b>                | 0.025-10ms                                     | 1ms-30s        | 0.025-10ms                                   | 1ms-30s        | 0.025-10ms                                | 1ms-30s        | 0.025-10ms                                | 1ms-30s          |
| <b>Resolution</b>               | 1µs  | 1ms            | 1µs  | 1ms            | 1µs                                       | 1ms            | 1µs                                       | 1ms              |
| <b>Accuracy</b>                 | 1µs+100ppm                                     | 1ms+100ppm     | 1µs+100ppm                                   | 1ms+100ppm     | 1µs+100ppm                                | 1ms+100ppm     | 1µs+100ppm                                | 1ms+100ppm       |
| <b>Slew rate</b>                | 6mA-1.5A/µs                                    | 50mA-12.5A/µs  | 12mA-3A/µs                                   | 100mA-25A/µs   | 20mA-5A/µs                                | 166mA-41.6A/µs | 3mA-0.75A/µs                              | 25mA-6A/µs       |
| <b>Resolution</b>               | 6mA/µs   | 50mA/µs        | 12mA/µs                                      | 100mA/µs       | 20mA/µs                                   | 166mA/µs       | 3mA/µs                                    | 25mA/µs          |
| <b>Min. Rise Time</b>           | 20µs (typical)                                 |                | 20µs (typical)                               |                | 20µs (typical)                            |                | 24 µs (typical)                           |                  |
| <b>Current</b>                  |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-30A  | 0-300A         | 0-60A  | 0-600A         | 0-100A                                    | 0-1000A        | 0-15A                                     | 0-150A           |
| <b>Resolution</b>               | 9.37mA   | 75mA           | 15mA   | 150mA          | 31.25mA                                   | 250mA          | 3.75mA                                    | 37.5mA           |
| <b>Accuracy</b>                 | 0.4%F.S.                                       |                | 0.4%F.S.                                     |                | 0.4%F.S.                                  |                | 0.4%F.S.                                  |                  |
| <b>Measurement</b>              |  |                |  |                |   |                |   |                  |
| <b>Voltage Read Back</b>        |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-16V  | 0-80V          | 0-16V  | 0-80V          | 0-16V                                     | 0-80V          | 0-125V                                    | 0-500V           |
| <b>Resolution</b>               | 15bits   | 15bits         | 15bits                                       | 15bits         | 15bits                                    | 15bits         | 15bits                                    | 15bits           |
| <b>Accuracy</b>                 | 0.05%+0.05%F.S.                                |                | 0.05%+0.05%F.S.                              |                | 0.05%+0.05%F.S.                           |                | 0.05%+0.05%F.S.                           |                  |
| <b>Current Read Back</b>        |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-30A  | 0-300A         | 0-60A  | 0-600A         | 0-100A                                    | 0-1000A        | 0-15A                                     | 0-150A           |
| <b>Resolution</b>               | 15bits   | 15bits         | 15bits                                       | 15bits         | 15bits                                    | 15bits         | 15bits                                    | 15bits           |
| <b>Accuracy</b>                 | 0.1%+0.1%F.S.                                  |                | 0.1%+0.1%F.S.                                |                | 0.1%+0.1%F.S.                             |                | 0.1%+0.1%F.S.                             |                  |
| <b>Power Read Back</b>          |  |                |  |                |   |                |   |                  |
| <b>Range</b>                    | 0-1040W  | 0-10400W       | 0-1560W                                      | 0-15600W       | 0-1560W                                   | 0-15600W       | 0-1450W                                   | 0-14500W         |
| <b>Resolution</b>               | 15bits   | 15bits         | 15bits                                       | 15bits         | 15bits                                    | 15bits         | 15bits                                    | 15bits           |
| <b>Accuracy</b>                 | 0.3%+0.3%F.S.                                  |                | 0.3%+0.3%F.S.                                |                | 0.3%+0.3%F.S.                             |                | 0.3%+0.3%F.S.                             |                  |
| <b>General</b>                  |  |                |  |                |   |                |   |                  |
| <b>Short Circuit</b>            |  |                |  |                |   |                |   |                  |
| <b>Current</b>                  | 30A  | 300A           | 60A  | 600A           | 100A                                      | 1000A          | 15A                                       | 150A             |
| <b>Dimension (H x W x D)</b>    | 443.7 x 440 x 589 mm / 17.5 x 17.3 x 23.2 inch |                | 762.8 x 546 x 700 mm / 30 x 21.5 x 27.6 inch |                | 762.8x546x700mm/30x21.5x27.6inch(cabinet) |                | 762.8x546x700mm/30x21.5x27.6inch(cabinet) |                  |
| <b>Weight</b>                   | 90 kg / 198.24 lbs                             |                | 170 kg / 374.45 lbs                          |                | 170 kg / 374.45 lbs                       |                | 170 kg / 374.45 lbs                       |                  |
| <b>Safety &amp; EMC</b>         | CE   |                | CE   |                | CE  |                | CE  |                  |

**Note\*1** : The power rating specifications at ambient temperature=25°C and see the diagram below for power derating.

**Note\*2** : The Vin must be greater than min. operating voltage of each model.

**Note\*3** : The Vin must be greater than 7V of each model.

**Note\*4** : Setting error will be 1% for R<0.005Ω at CRL range.



## ORDERING INFORMATION

- 63201** : DC Electronic Load 2.6kW/300A/80V
- 63202** : DC Electronic Load 2.6kW/50A/500V
- 63203** : DC Electronic Load 5.2kW/600A/80V
- 63204** : DC Electronic Load 5.2kW/100A/500V
- 63205** : DC Electronic Load 6.5kW/180A/80V
- 63206** : DC Electronic Load 10.4kW/600A/80V
- 63207** : DC Electronic Load 10.4kW/300A/80V
- 63208** : DC Electronic Load 15.6kW/600A/80V
- 63209** : DC Electronic Load 15.6kW/1000A/80V
- 63210** : DC Electronic Load 14.5kW/150A/500V
- A632001** : Remote Controller
- A632002** : Load Cable 38mm/242A/200cmx2
- A632003** : Load Cable 80mm/390A/200cmx2
- A632004** : Sync. Link Box for 6330A & 63200 series
- A632005** : Softpanel for 63200 series

