5V SERIES DC LOADS

Key features:

- Models from 600W to 14400W
- High Voltage Range, 0 - 500 Vdc
- Current Ranges up to 500 Adc
- High-Speed 5 Digit Precision Metering Capability
- Parallel Operation for High Power Applications
- Synchronized Operation of Multiple Loads
- Operating Modes: CC, CP, CR and CV
- Static and Dynamic CC Modes
- Fast Current Slew Rates
- Built-in Short Circuit Test
- Built-in Power Supply Over Current Protection Test Mode
- Built-in Power Supply Over Power Protection Test Mode
- Go/NoGo Test Support
- Auto-Sequencing
- High Power Load Cabinets
- Available Interface Options are USB, RS232, GPIB and LAN

OVERVIEW

The ADAPTIVE POWER 5V Series Programmable DC Electronic Loads are ideally suited for testing high voltage, high current power supplies and batteries. With their ability to draw full current starting as low as 3.0 Vdc, the 5V Series loads can provide a wide dynamic range of load conditions.

Target applications for these loads are research & development, production test, incoming inspection, quality control and service.

The high power density of 1800W in a 4U high, single 19” wide rack-mount mainframe represents industry leading power density. The 5V Series consists of a total of seventeen different model configurations, providing a wide variation of possible current and power ranges. Starting at 600 Watt and ranging to 1800 Watt per chassis or 14400W for 5V Cabinet systems, all models offer dual voltage and current range capability for optimal accuracy and resolution.

HIGH POWER 5V SERIES CABINET SYSTEMS

For high power models in the 5V Series are supplied as integrated load cabinets that combine one master 5V unit with one or more slave 5V Series rack mount units. These systems contain all necessary input wiring and output bus bars to handle DC current up to 500 Adc. These systems are ideally suited for burn in and battery discharge test applications up to 500 Vdc.

The 5V Series offers high power, high voltage load performance and durability at an affordable price point.
OPERATING MODES

All 5V Series loads support several modes of operation to accommodate a wide range of test requirements. Voltage sources like AC/DC power supplies are best tested using Constant Current (CC) mode. Battery chargers on the other hand can be tested using an E-load in Constant Voltage (CV) mode.

The available operating modes are Constant Current, Constant Voltage, Constant Power and Constant Resistance. A graphical representation of these modes of operation is shown here.

STATIC & DYNAMIC MODES

The demands put on power supplies to support increasingly complex electronics systems continue to escalate. It is no longer sufficient to test power supplies for static load conditions. Instead, dynamic load conditions requiring rapid changes in current demanded from the power supply need to be evaluated and tested. The 5V Series Loads serve this purpose by offering high speed programmable dynamic load control.

The diagram below illustrates the variable load current slew rates and dwell times that can be programmed on the 5V Series loads.

Sequences of variable slew rates and test levels can be stored in non-volatile memory for recall during dynamic transient load test execution. This makes it possible to simulate real-world demanding load conditions on power supplies driving modern electronics. With current slew rates ranging up to several Amps per microsecond and dwell times down to 50 microseconds, thorough transient stability testing of power supply designs is possible. Advanced remote sense and control feedback loops ensure stable and repeatable testing with little or no distortion during load transitions.

FLEXIBLE INPUT CAPABILITIES

5V Series loads are designed to accommodate a wide range of current input values within their maximum voltage and power capability. This allows the same loads to be used for higher voltage and low current requirements as well as low voltage higher current applications. A typical V-I operating curve is shown on the right for load model 5V108-07. Bounded by the maximum voltage of 500Vdc and maximum current of 72A, the input range follows an 10.8kW power curve as shown.

Each load continuously tracks its input voltage current and power and safeguards against any operation outside of its operating limits.

This flexible operating range allows the same load to be used for a wide range of EUTs and provides great flexibility.
SHORT CIRCUIT TESTING
Power supplies and batteries must be able to handle short circuit conditions without failing. The 5V Series loads have a built-in short circuit test mode that allows easy PASS/FAIL detection as part of a test protocol. Programmable parameters short duration time (T-short) and Hi and Lo voltage limits for the EUT during short conditions. If the sensed voltage falls within the user-defined limits, a PASS is recorded.

GO/NOGO LIMIT TESTING
The GO/NG mode of operation is a convenient way to automatically check any measured parameter like voltage, current or power against predefined upper and lower limits. Once set, the load continuously compares readings against these limits and issues a GO or NoGo error output.

5V SERIES CABINET SYSTEMS
For applications where the 5V Series single chassis provides insufficient current and/or power, the 5V cabinet systems provides a fully integrated Master/Slave load test system solution.

These systems come in a movable cabinet with pre-installed AC input wiring and solid copper output bus bars that can handle large amounts of DC current.

Cabinets range in size from 2400 Watt to 14400 Watt, with thirteen system configurations to choose from.
The 5V Series Load has an easy to use front panel layout consisting of large white LED back-lit LCD readouts and a keypad, shuttle combination for settings and parameter entry. Status indicator LED’s accompany the various function and mode setting keys so the operational state of the DC load is easily observed by the operator. The digital rotary encoder makes slewing of parameters very intuitive.

1. Model Number and ranges
2. Go/NoGo indicator illuminates if upper or lower limit settings are exceeded.
3. Operating Mode Indicators
4. REMOTE state indicator
5. Multi-purpose 5 digit display - Voltage
6. Multi-purpose 5 digit display - Current
7. Multi-purpose 5 digit display - Power
8. MODE selection key
9. LOAD ON/OFF button and indicator
10. DYNAMIC mode button and indicator
11. High or Low Range Selection and indicator
12. High or Low Load Setting Selection and indicator
13. Preset Mode ON/OFF
14. Limit Setup Menu
15. DYNAMIC mode settings
16. Configuration Menu
17. Short Circuit Test key and indicator
18. OCP (Over Current Protection) Test key and indicator
19. OPP (Over Power Protection) Test key and indicator
20. SHORT, OCP & OPP Start/Stop
21. Shuttle Knob, parameter selection, slew and cursor keys

REAR PANEL

AC Line Selector
Analog Programming Inputs
Remote Control Interface
### SPECIFICATIONS - 5V SERIES DC LOADS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>5V006-02</th>
<th>5V012-04</th>
<th>5V018-01</th>
<th>5V018-06</th>
<th>5V024-08</th>
<th>5V036-12</th>
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<tbody>
<tr>
<td><strong>OPERATING RANGES</strong></td>
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<tr>
<td>Power Ranges</td>
<td>0-60W / 0-600W</td>
<td>0-120W / 0-1200W</td>
<td>0-180W / 0-1800W</td>
<td>0-240W / 0-2400W</td>
<td>0-360W / 0-3600W</td>
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<td>Current Ranges</td>
<td>0-2.0A / 0-20A</td>
<td>0-4.0A / 0-40A</td>
<td>0-1.2A / 0-12A</td>
<td>0-6.0A / 0-60A</td>
<td>0-8.0A / 0-80A</td>
<td>0-12.0A / 0-120A</td>
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<td>Voltage Range</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
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<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
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<tr>
<td>Minimum Voltage</td>
<td>4.0 V @ 20 A</td>
<td>4.0 V @ 40 A</td>
<td>6.0V @ 12 A</td>
<td>4.0 V @ 60 A</td>
<td>4.0 V @ 80 A</td>
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| **OPERATING MODES** |          |          |          |          |          |          |
| CC Mode Range       | 0-2.0A / 0-20A  | 0-4.0A / 0-40A   | 0-1.2A / 0-12A   | 0-6.0A / 0-60A   | 0-8.0A / 0-80A   | 0-12.0A / 0-120A |
| Resolution          | 0.033mA / 0.33mA | 0.066mA / 0.66mA | 0.02mA / 0.2mA  | 0.1mA / 1mA      | 0.133mA / 1.33mA | 0.2mA / 2mA     |
| Accuracy            | ± 0.1% OF (SETTING + RANGE) |          |          |          |          |          |
| CR Mode Range       | 0.5 / 30 / 1800kΩ | 0.2 / 5 / 900kΩ  | 0.833 / 50 / 3000kΩ | 0.1666 / 10 / 600kΩ | 0.125 / 7.5 / 450kΩ | 0.833 / 5 / 300kΩ |
| Resolution          | 0.5μΩ / 0.55μS  | 0.25μΩ / 1.15μS  | 0.833μΩ / 0.33μS  | 0.1666μΩ / 0.032μS | 0.125μΩ / 0.0022μS | 0.833μΩ / 0.00003μS |
| Accuracy            | ± 0.2% OF (SETTING + RANGE) |          |          |          |          |          |
| CV Mode Range       | 0-60.0 V / 0-500 V | 0-60.0 V / 0-500 V | 0-60.0 V / 0-500 V | 0-60.0 V / 0-500 V | 0-60.0 V / 0-500 V | 0-60.0 V / 0-500 V |
| Resolution          | 1mV / 10mV     | 1mV / 10mV    | 1mV / 10mV    | 1mV / 10mV    | 1mV / 10mV    | 1mV / 10mV    |
| Accuracy            | ± 0.05% OF (SETTING + RANGE) |          |          |          |          |          |
| Resolution          | 1mW / 10mW      | 2mW / 20mW    | 3mW / 30mW    | 3mW / 30mW    | 4mW / 40mW    | 6mW / 60mW    |
| Accuracy            | ± 0.5% OF (SETTING + RANGE) |          |          |          |          |          |

| **PROTECTION** |          |          |          |          |          |          |
| Over Power (OP)  | 630 W       | 1260 W    | 1890 W    | 1890 W    | 2520 W    | 3780 W    |
| Over Current (OC) | 21.0 A   | 42.0 A    | 12.6 A    | 63.0 A    | 84.0 A    | 126.0 A   |
| Over Voltage (OV) | 525.0 V | 525.0 V | 525.0 V | 525.0 V | 525.0 V | 525.0 V |
| Over Temperature (OT) | +85° C / +185° F |          |          |          |          |          |

| **DYNAMIC OPERATION** |          |          |          |          |          |          |
| T high & T low       | 0.050 - 9.999 / 9999 / 9999.9 / 99999ms (20 kHz) | |          |          |          |          |
| Resolution          | 0.001 / 0.01 / 0.1 / 1ms | |          |          |          |          |
| Accuracy            | ± 1μs / 10μs / 100μs / 1ms + 50ppm | |          |          |          |          |
| Slew Rate           | 1.6mA-100mA/μs  | 3.2mA-200mA/μs | 0.96mA-60mA/μs  | 4.8mA-300mA/μs | 6.4mA-400mA/μs | 9.6mA-600mA/μs |
| Accuracy            | ± 5% OF SETTING ± 10μs | |          |          |          |          |
| Min. Rise Time      | 20μs Typical | |          |          |          |          |

| **METERING** |          |          |          |          |          |          |
| Voltage Range     | 0 - 60.0V / 0 - 500 V | |          |          |          |          |
| Resolution        | 1.0 mV / 10 mV | |          |          |          |          |
| Accuracy           | ± 0.025% OF (READING + RANGE) | |          |          |          |          |
| Current Range     | 0-2.0A / 0-20A  | 0-4.0A / 0-40A   | 0-1.2A / 0-12A   | 0-6.0A / 0-60A   | 0-8.0A / 0-80A   | 0-12.0A / 0-120A |
| Resolution        | 0.033mA / 0.33mA | 0.066mA / 0.66mA | 0.02mA / 0.2mA  | 0.1mA / 1mA      | 0.133mA / 1.33mA | 0.2mA / 2mA     |
| Accuracy           | ± 0.1% OF (READING + RANGE) | |          |          |          |          |
| Resolution        | 0.03 W         | 0.03 W          | 0.03 W          | 0.03 W          | 0.04 W          | 0.06 W          |
| Accuracy           | ± 0.125% OF (READING + RANGE) | |          |          |          |          |

| **SHORT CIRCUIT** |          |          |          |          |          |          |
| Max. Short Current | 20 A     | 40 A     | 12 A     | 60 A     | 80 A     | 120 A     |

| **ANALOG I/O** |          |          |          |          |          |          |
| Analog Monitor Out | 0 - 10V out F.S. / 1kΩ Zout, Non-isolated | |          |          |          |          |
| Analog Input (CC mode) | 0 - 10V in for F.S. current @ 10V | |          |          |          |          |

| **AC INPUT AND PHYSICAL SPECIFICATIONS** |          |          |          |          |          |          |
| Power & Cooling | 115/230Vac ± 10%, 50/60 Hz, 100 W max., Variable Speed Fan Cooled | |          |          |          |          |
| Dimensions (H x W x D) | 177 x 440 x 445 mm / 7.0" x 17.3" x 17.5" | 839 x 600 x 600 mm / 33.0" x 23.6" x 23.6" | |          |          |          |
| Weight (Net) | 15.2kg / 33.5 lbs | 19.4kg / 42.8 lbs | 23.6kg / 52.0 lbs | 23.6kg / 52.0 lbs | 72.8kg / 160.5 lbs | 81.2kg / 179.0 lbs |
| Operating Range | 0 - 40° C / -32 - 104° F | |          |          |          |          |
| EMC & Safety | CE Mark | |          |          |          |          |
### SPECIFICATIONS - 5V SERIES DC LOADS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>5V036-02</th>
<th>5V054-04</th>
<th>5V054-18</th>
<th>5V072-05</th>
<th>5V072-24</th>
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<tr>
<td>Voltage Range</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
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<td>0-60.0 V / 0-500 V</td>
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<tr>
<td>Minimum Voltage</td>
<td>6.0 V @ 24 A</td>
<td>6.0 V @ 36 A</td>
<td>4.0 V @ 180 A</td>
<td>3.0 V @ 48 A</td>
<td>4.0 V @ 240 A</td>
<td>4.0 V @ 300 A</td>
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<td><strong>CC Mode</strong></td>
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<tr>
<td>Resolution</td>
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<td>0.06mA / 0.6mA</td>
<td>0.3mA / 3mA</td>
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<td>0.5mA / 5mA</td>
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<tr>
<td><strong>CR Mode</strong></td>
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<tr>
<td>Range</td>
<td>0.416 / 25 / 150kΩ</td>
<td>0.2775 / 16.6 / 100kΩ</td>
<td>0.0555 / 3.333 / 20kΩ</td>
<td>0.0416 / 2.5 / 150kΩ</td>
<td>0.0416 / 2.5 / 150kΩ</td>
<td>0.0333 / 2 / 120kΩ</td>
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<td>0.416mΩ / 0.00066mS</td>
<td>0.2775mΩ / 0.01mS</td>
<td>0.0555mΩ / 0.00033mS</td>
<td>0.0416mΩ / 0.0066mS</td>
<td>0.0416mΩ / 0.0066mS</td>
<td>0.0333mΩ / 0.128mS</td>
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<td>Accuracy</td>
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<td><strong>CV Mode</strong></td>
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</tr>
<tr>
<td>Range</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
<td>0-60.0 V / 0-500 V</td>
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<td>Resolution</td>
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<td>1mV / 10mV</td>
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<td>1mV / 10mV</td>
<td>1mV / 10mV</td>
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<tr>
<td>Accuracy</td>
<td>± 0.5% OF (SETTING + RANGE)</td>
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<tr>
<td><strong>CP Mode</strong></td>
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</tr>
<tr>
<td>Resolution</td>
<td>6mW / 60mW</td>
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<td>12mW / 120mW</td>
<td>12mW / 120mW</td>
<td>15mW / 150mW</td>
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<tr>
<td>Accuracy</td>
<td>± 0.5% OF (SETTING + RANGE)</td>
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</tr>
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</table>

### PROTECTION

| Over Power (OP) | 630 W | 1260 W | 1890 W | 1890 W | 2520 W | 3780 W |
| Over Current (OC) | 21.0 A | 42.0 A | 12.6 A | 63.0 A | 84.0 A | 126.0 A |
| Over Voltage (OV) | 525.0 V | 525.0 V | 525.0 V | 525.0 V | 525.0 V | 525.0 V |
| Over Temperature (OT) | +85° C / +185° F |          |          |          |          |          |

### DYNAMIC OPERATION

| T high & T low | 0.050 - 9.999 / 99.99 / 999.9 / 9999ms (20 kHz) |          |          |          |          |          |
| Resolution | 0.001 / 0.01 / 0.1 / 1ms |          |          |          |          |          |
| Accuracy | ± 0.025% OF (READING + RANGE) |          |          |          |          |          |
| Slew Rate | 1.92mA-120mA/μs | 2.88mA-180mA/μs | 14.4mA-900mA/μs | 0.0192A-1.2A/μs | 0.0192A-1.2A/μs | 0.024A-1.5A/μs |
| Accuracy | ± 0.1% OF (READING + RANGE) |          |          |          |          |          |
| Min. Rise Time | 20μs Typical |          |          |          |          |          |

### METERING

| Voltage | 0 - 60.0 V / 0 - 500 V |          |          |          |          |          |
| Resolution | 1.0 mV / 10 mV |          |          |          |          |          |
| Accuracy | ± 0.025% OF (READING + RANGE) |          |          |          |          |          |
| Resolution | 0.02mA / 0.2mA | 0.06mA / 0.6mA | 0.3mA / 3mA | 0.4mA / 4mA | 0.4mA / 4mA | 0.5mA / 5mA |
| Accuracy | ± 0.1% OF (READING + RANGE) |          |          |          |          |          |
| Resolution | 0.06 W | 0.09 W | 0.12 W | 0.12 W | 0.15 W |          |
| Accuracy | ± 0.125% OF (READING + RANGE) |          |          |          |          |          |

### SHORT CIRCUIT

| Max. Short Current | 24 A | 36 A | 180 A | 48 A | 240 A | 300 A |

### ANALOG I/O

| Analog Monitor Out | 0 - 10 V out F.S. / 1KΩ Zout, Non-isolated |          |          |          |          |          |
| Analog Input (CC mode) | 0 - 10V in for F.S. current @ 10V |          |          |          |          |          |

### AC INPUT AND PHYSICAL SPECIFICATIONS

| Power & Cooling | 115/230Vac ± 10%, 50/60 Hz, Variable Speed Fan Cooled |          |          |          |          |          |
| Power Consumption | 200 W max. | 300 W max. | 300 W max. | 400 W max. | 400 W max. | 500 W max. |
| Dimensions (H x W x D) | 839 x 600 x 600 mm / 33.0" x 23.6" x 23.6" | 1601x600x600 mm / 41.8"x23.6"x23.6" | 1283x600x600 mm / 50.5"x23.6"x23.6" |
| Weight (Net) | 81.2kg / 179.0 lbs | 104.8kg / 231.0 lbs | 104.8kg / 231.0 lbs | 161.4kg / 355.8 lbs | 161.4kg / 355.8 lbs | 185.0kg / 407.9 lbs |
| Operating Range | 0 - 40° C / 32 - 104° F |          |          |          |          |          |
| EMC & Safety | CE Mark |          |          |          |          |          |
## SPECIFICATIONS - 5V SERIES DC LOADS

### OPERATING RANGES

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<tr>
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<th>5V108-07</th>
<th>5V108-36</th>
<th>5V126-42</th>
<th>5V144-50</th>
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<tbody>
<tr>
<td>Power Ranges</td>
<td>0-900 W</td>
<td>0-1080 W</td>
<td>0-1080 W</td>
<td>0-1260 W</td>
<td>0-1440 W</td>
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<td>Current Ranges</td>
<td>0 - 6.0 A</td>
<td>0 - 7.2 A</td>
<td>0 - 36 A</td>
<td>0 - 42 A</td>
<td>0 - 50 A</td>
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<td>0-60.0 V</td>
<td>0-60.0 V</td>
</tr>
<tr>
<td>Minimum Voltage</td>
<td>6.0 V @ 60 A</td>
<td>6.0 V @ 72 A</td>
<td>6.0 V @ 72 A</td>
<td>4.0 V @ 36 A</td>
<td>4.0 V @ 42 A</td>
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### OPERATING MODES

<table>
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<th>MODE</th>
<th>Range</th>
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<th>Accuracy</th>
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<tr>
<td>CC Mode</td>
<td>0 - 6.0 A / 0 - 60 A</td>
<td>0.1mA / 1mA</td>
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<td>CR Mode</td>
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<td>0.138mΩ / 0.0166mS</td>
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<tr>
<td>CV Mode</td>
<td>0-60.0 V / 0-500 V</td>
<td>1mV / 10mV</td>
<td>± 0.5% OF (SETTING + RANGE)</td>
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<td>CP Mode</td>
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<td>15mW / 150mW</td>
<td>4.8mA-300mA/μs</td>
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### PROTECTION

<table>
<thead>
<tr>
<th>Type</th>
<th>Power (OP)</th>
<th>Current (OC)</th>
<th>Voltage (OV)</th>
<th>Over Temperature (OT)</th>
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<tbody>
<tr>
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<td>9450 W</td>
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<td>525.0 V</td>
<td>+85° C / +185° F</td>
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<td>525.0 V</td>
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<tr>
<td>Over Voltage</td>
<td>11340 W</td>
<td>378.0 A</td>
<td>525.0 V</td>
<td></td>
</tr>
</tbody>
</table>

### DYNAMIC OPERATION

<table>
<thead>
<tr>
<th>Type</th>
<th>T high &amp; T low</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slew Rate</td>
<td>0.050 - 9.999 / 99.99 / 999.9 / 9999ms (20 kHz)</td>
<td>1μs / 10μs / 100μs / 1ms ± 50ppm</td>
<td></td>
</tr>
</tbody>
</table>

### METERING

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>0 - 60.0 V / 0 - 500 V</td>
<td>1.0 mV / 10 mV</td>
<td>± 0.025% OF (READING + RANGE)</td>
</tr>
<tr>
<td>Current</td>
<td>0 - 6.0 A / 0 - 60 A</td>
<td>0.1mA / 1mA</td>
<td>± 0.1% OF (READING + RANGE)</td>
</tr>
</tbody>
</table>

### SHORT CIRCUIT

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Short Current</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit</td>
<td>60 A</td>
<td>± 0.125% OF (READING + RANGE)</td>
</tr>
</tbody>
</table>

### ANALOG I/O

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Mon Out</td>
<td>0 - 10 V out F.S. / 1KO Zout, Non-isolated</td>
<td></td>
</tr>
<tr>
<td>Analog In (CC mode)</td>
<td>0 - 10V in for F.S. current @ 10V</td>
<td></td>
</tr>
</tbody>
</table>

### AC INPUT AND PHYSICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>Power &amp; Cooling</th>
<th>Power Consumption</th>
<th>Dimensions (H x W x D)</th>
<th>Weight (Net)</th>
<th>Operating Range</th>
<th>EMC &amp; Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power &amp; Cooling</td>
<td>115/230Vac ± 10%, 50/60 Hz, Variable Speed Fan Cooled</td>
<td>500 W max.</td>
<td>1283 x 600 x 600 mm / 50.5” x 23.6” x 23.6”</td>
<td>185.0kg / 407.9 lbs</td>
<td>0 - 40° C / 32 - 104° F</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>600 W max.</td>
<td>59.3” x 23.6” x 23.6”</td>
<td>104.8kg / 231.0 lbs</td>
<td>161.4kg / 355.8 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>600 W max.</td>
<td>1728 x 600 x 600 mm / 68” x 23.6” x 23.6”</td>
<td>104.8kg / 231.0 lbs</td>
<td>161.4kg / 355.8 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>700 W max.</td>
<td>Weight (Net)</td>
<td>104.8kg / 231.0 lbs</td>
<td>161.4kg / 355.8 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>800 W max.</td>
<td>Operating Range</td>
<td>0 - 40° C / 32 - 104° F</td>
<td>161.4kg / 355.8 lbs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.adaptivepower.com  sales@adaptivepower.com  Toll Free: 1.866.517-8400  Tel: +1.949.752-8400
**5V SERIES DC LOADS**

**ORDERING INFORMATION:**

**Line 1:** Specify DC Load Model:
- 5Vxx-xx Chassis
- 5Vxxx-xx Cabinet System

**Line 2:** Specify Remote Control Option:
- None, Opt GPIB, Opt RS232, Opt USB or Opt LAN

**Line 3:** Specify Load Cable Option. (See Table)

**Available Load Cable Options:**

<table>
<thead>
<tr>
<th>Option P/N</th>
<th>Description</th>
<th>MOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPT-C1KA1</td>
<td>Load Cable, 1000A rated, 1 meter</td>
<td>2</td>
</tr>
<tr>
<td>OPT-C1KA2</td>
<td>Load Cable, 1000A rated, 2 meter</td>
<td>2</td>
</tr>
<tr>
<td>OPT-C1KA3</td>
<td>Load Cable, 1000A rated, 3 meter</td>
<td>2</td>
</tr>
<tr>
<td>OPT-C1KA4</td>
<td>Load Cable, 1000A rated, 4 meter</td>
<td>2</td>
</tr>
<tr>
<td>OPT-C1KA5</td>
<td>Load Cable, 1000A rated, 5 meter</td>
<td>2</td>
</tr>
</tbody>
</table>

**AC Input Voltage**

Please specify AC Line input voltage at the ship-to location on the order as either 120Vac or 230Vac.

**Included in Mainframe Ship kit:**
- User Manuals in PDF Format on CD ROM.
- AC Line Cord.
- Rack Handles (detached).
- Analog Input BNC Cable (1 meter/39.4”).
- Voltage Sense alligator clip lead, Red (1 meter, 39.4”)
- Voltage Sense alligator clip lead, Black (1 meter, 39.4”)
- LAN/USB Driver CD ROM (with Opt USB or Opt LAN).
- Certificate of Conformance.

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**Service and Support**

Adaptive Power Systems’ customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. So, in addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away.

Complete calibration and repair services are offered at our US, European and Chinese manufacturing facilities (see contact info below). Calibrations are to original factory specifications and are traceable to NIST (National Institute of Standards and Technology).

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