**Data Sheet**

# Programmable DC Electronic Loads
## 8600 Series

2U half-rack | 3U | 6U

The 8600 Series programmable DC electronic loads provide the performance of modular system DC electronic loads in a compact benchtop form factor. With fast transient operation speeds and high 16-bit measurement resolution, these standalone DC loads can be used for testing and evaluating a variety of DC sources such as DC power supplies, DC-DC converters, batteries, battery chargers, and photovoltaic arrays.

The DC loads can operate in constant current (CC), constant voltage (CV), constant resistance (CR), or constant power (CW) mode and be configured to provide a dynamically changing load to the DC source with fast load switching times. Versatile internal, external, and remote triggering options allow the dynamic load behavior to be synchronized with other events.

Increase productivity by saving your test parameters into any one of the 100 memory areas for quick system recall. All load parameters such as voltage, current, slew rate, and width can be set via the front panel or programmed remotely. The 8600 Series provides standard USB (USBTMC-compliant), GPIB, or RS-232 serial interfaces for remote communication.

To ensure the reliability of your testing, the 8600 Series provides a power-on system self-test and numerous protection features: overtemperature (OTP), overvoltage (OVP), overcurrent (OCP), overpower (OPP), and local/remote reverse voltage (LRV/RRV) protection.

### Special applications
The 8600 Series provides a built-in battery test mode to measure the ampere-hour (Ah) characteristic of a battery and a unique CR-LED mode to simulate the loading behavior of a typical LED.

### Features and Benefits
- Voltage range up to 500 V
- Current range up to 720 A
- CC/CV/CR/CW operating modes
- 16-bit voltage and current measurement system providing 1 mV / 0.1 mA resolution
- Transient mode up to 25 kHz in CC mode
- List mode function

### Features and Benefits (cont.)
- Store and recall up to 100 setups
- Adjustable slew rate in CC mode
- Flexible triggering options via front panel, external input, timer, or bus
- Built-in battery test function with voltage level, capacity level, and timer stop conditions
- Test modes to validate the OCP/OPP protection functions of a power supply
- CR-LED mode to simulate the loading behavior of typical LEDs
- Remote sense
- Analog current control and monitoring
- Thermostatically controlled fan
- Standard USB (USBTMC-compliant), RS232, and GPIB interfaces supporting SCPI commands for remote control
- OVP/OCP/OPP/OTP including local and remote reverse voltage (LRV/RRV) protection

| Model | 8600 | 8601 | 8602 | 8610 | 8612 | 8614 | 8616 | 8620 | 8622 | 8624 | 8625 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Power | 150 W | 250 W | 200 W | 750 W | 750 W | 1500 W | 1200 W | 3000 W | 2500 W | 4500 W | 6000 W |
| Operating Voltage | 0 – 120 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 120 V |
| Rated Current | 0 – 30 A | 0 – 60 A | 0 – 15 A | 0 – 120 A | 0 – 30 A | 0 – 240 A | 0 – 60 A | 0 – 480 A | 0 – 100 A | 0 – 600 A | 0 – 720 A |
| Form Factor | 2U half-rack | | | 3U | | | | | | 6U | |

Technical data subject to change
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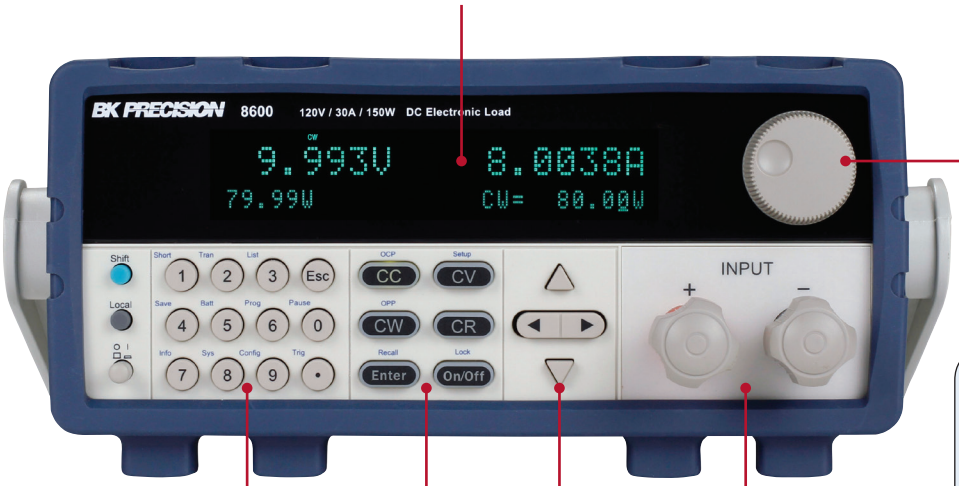
B&K PRECISION
ELECTRONIC TEST INSTRUMENTS

# ▶ Models 8600, 8601 & 8602

## Front panel

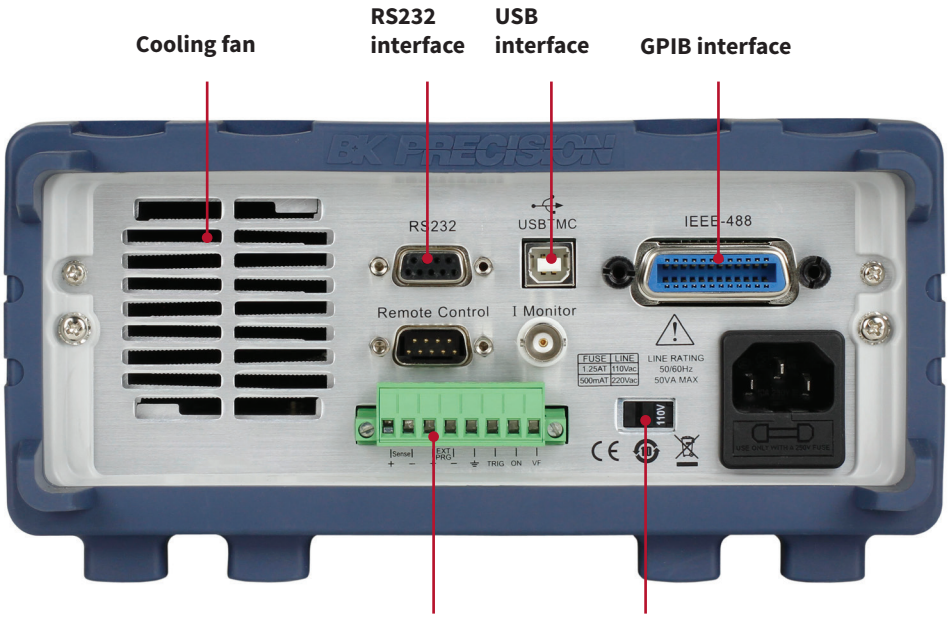
**Bright dual-line display**
The 8600 Series display shows both measured input values and set parameters simultaneously.




High current test lead accessory model TLPWRI

**Intuitive user interface**
The numeric keys and rotary knob provide a convenient interface for setting the operating mode and desired current, voltage, and resistance levels quickly and precisely.

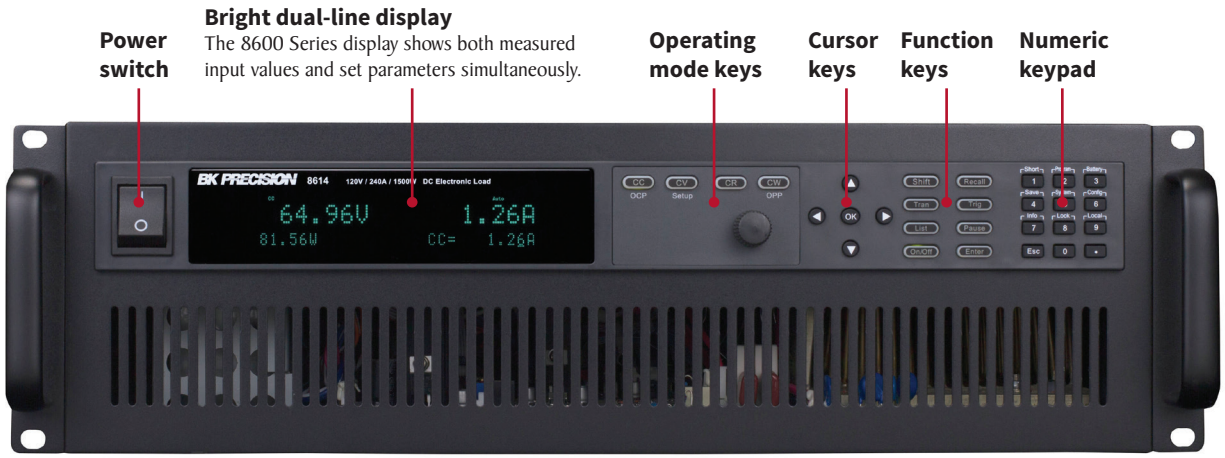
## Rear panel



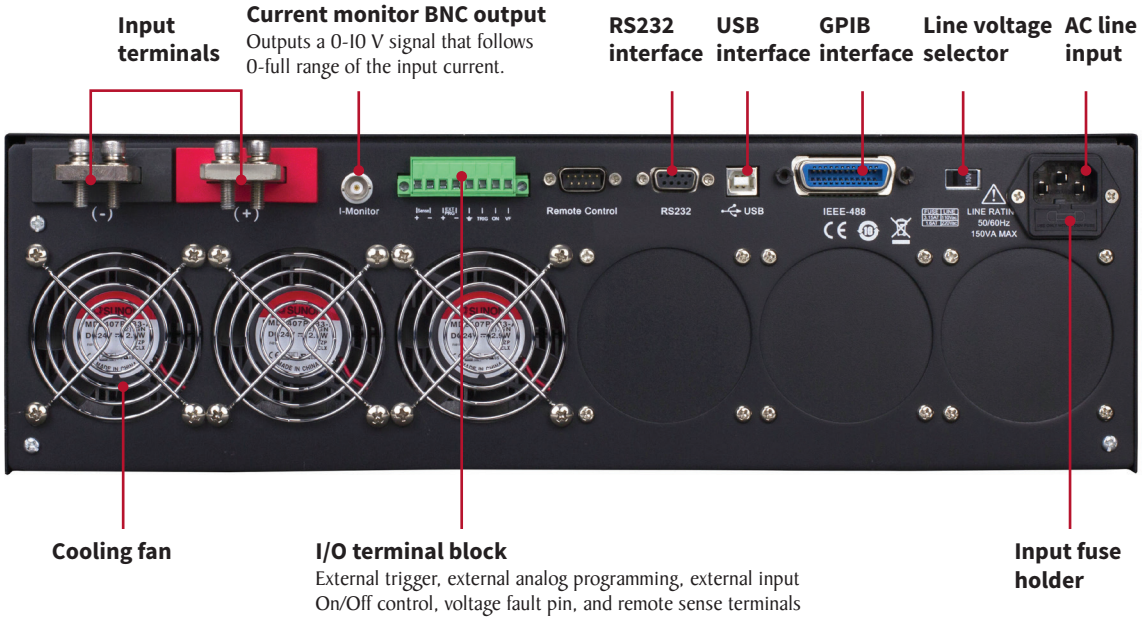

**I/O terminal block**
External trigger, external analog programming, external input On/Off control, voltage fault pin, and remote sense terminals

## ▶ Models 8610, 8612, 8614, 8616, 8620, 8622 (3U)

### Front panel




### Rear panel



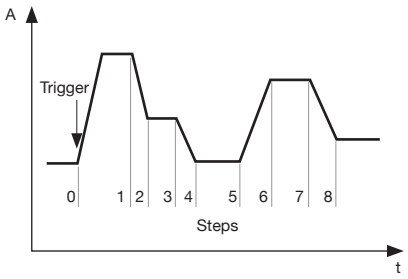

## ▶ Models 8624 & 8625 (6U)

6U form factor models use the same front panel interface as the 3U models

The rear panel configurations of 6U and 3U models are identical, however the number of fans installed varies by model

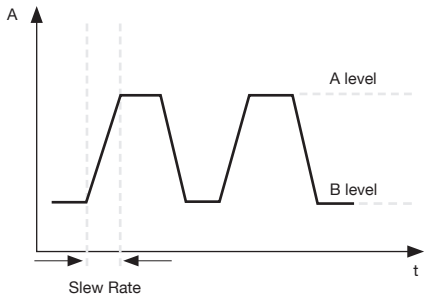
# Flexible operation

## List mode



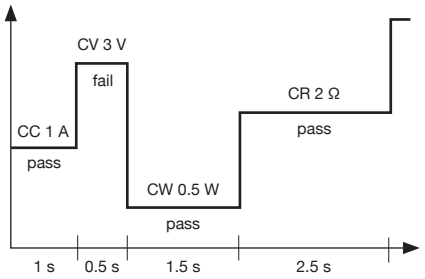

List mode lets you generate more complex sequences of input changes with several different levels. Up to 7 groups of list files can be saved. Each list can contain up to 84 steps with a minimum width time of 20 µs per step.

## Transient operation




Transient operation enables the module to periodically switch between two load levels. A power supply's regulation and transient characteristic can be evaluated by monitoring the supply's output voltage under varying combinations of load levels, frequency, duty cycle, and slew rate. Transient operation can simulate these conditions.

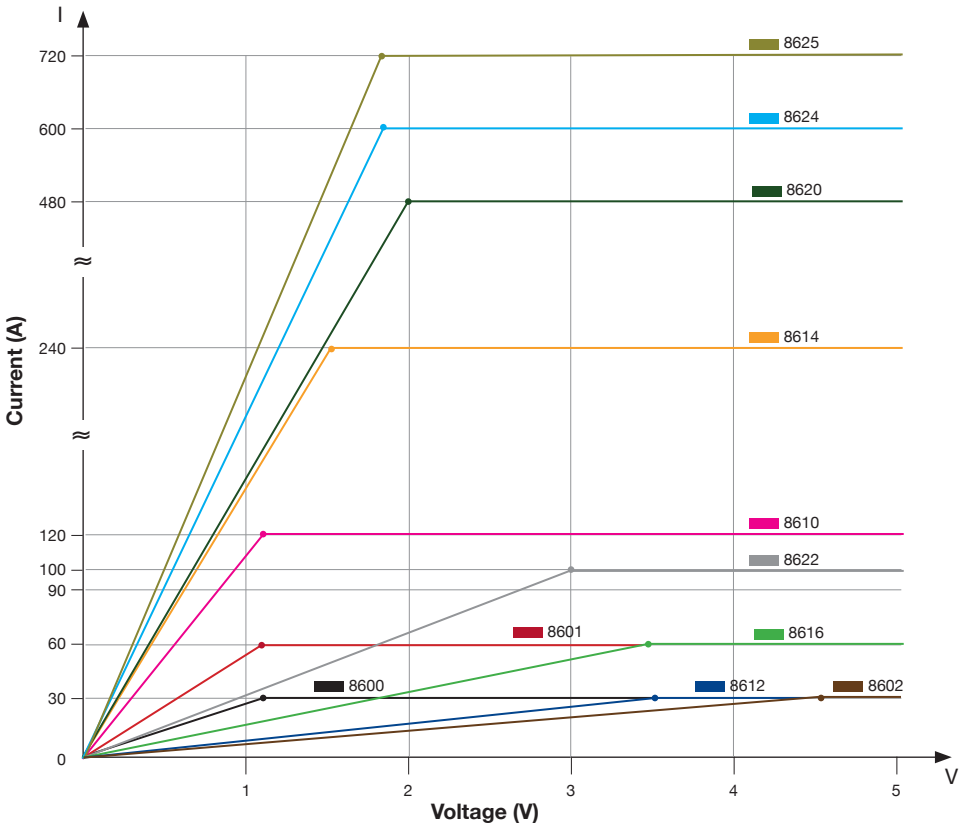
## Automatic test mode




The 8600 Series can execute multiple test sequences in automatic test mode. Up to 100 different sequences can be linked to run steps of various operating modes and loading conditions. Each sequence can also be programmed with upper and lower limit Pass/Fail criteria. When applied in production testing, you can easily judge whether the test parameters of your devices are within the specification limits and adjust your process according to the Pass/Fail verdict.

## Low voltage operation

The 8600 Series can operate at low voltages for applications such as fuel cell and solar cell testing.




| Typical minimum operating voltage at full scale current | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8600 | 8601 | 8602 | 8610 | 8612 | 8614 | 8616 | 8620 | 8622 | 8624 | 8625 |
| 1.1 V | 1.1 V | 4.5 V | 1.2 V | 3.6 V | 1.5 V | 3.6 V | 2 V | 3 V | 1.8 V | 1.8 V |

## CR-LED mode

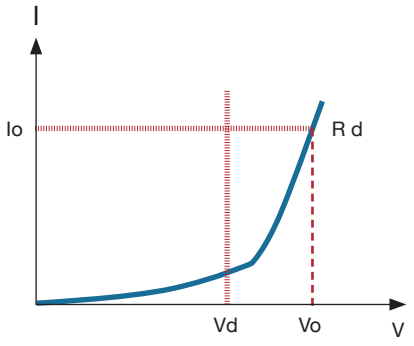



Figure - LED I-V Curve

Vd = Forward voltage of the LED
Rd = LED's operating resistance
Vo = Operating voltage across the LED
Io = Operating current across the LED

Use the load's unique CR-LED operating mode to test LED drivers. This function allows users to configure the LED's operating resistance and forward voltage along with the voltage range (same as CR operation) to simulate the loading behavior of typical LEDs.

# Remote control and programming

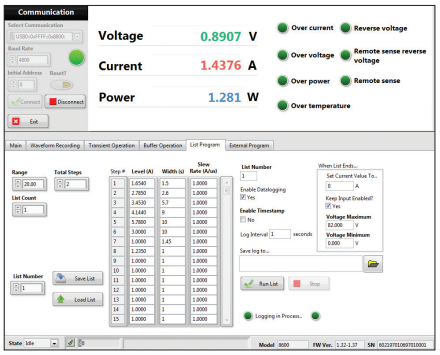
## Powerful communication interfaces

The 8600 Series provides standard GPIB, USB, and RS232 interfaces for remote communication. These interfaces offer SCPI and USBTMC standard communication protocols to control your electronic load from a PC.

## External analog programming and monitoring interface

In addition to front panel and remote interface control, current values can also be programmed with an analog control signal. The electronic loads can be externally controlled from zero to full scale with a 0-10 V input signal. A BNC output is available on the rear for monitoring the current with a 0-10 V output signal.

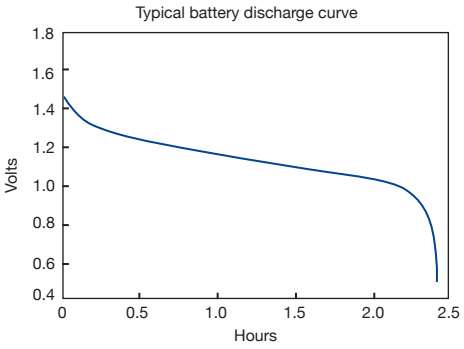
## Application software




PC software is provided for front panel emulation, generating and executing test sequences, or logging measurement data without the need to write source code. Additionally, this application software integrates with NI Data Dashboard for LabVIEW apps, which allows users to create a custom dashboard on a tablet computer or smartphone to remotely monitor 8600 Series DC loads via this PC software.

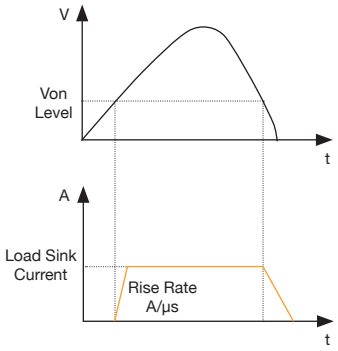
- Remote monitoring on iOS, Android or Windows 8 compatible tablets or smartphones via NI Data Dashboard for LabVIEW apps
- Log voltage, current, and power values with timestamp
- Run transient operation and list mode programs remotely
- Create an unlimited number of external list files to be executed from PC memory

## Battery test function



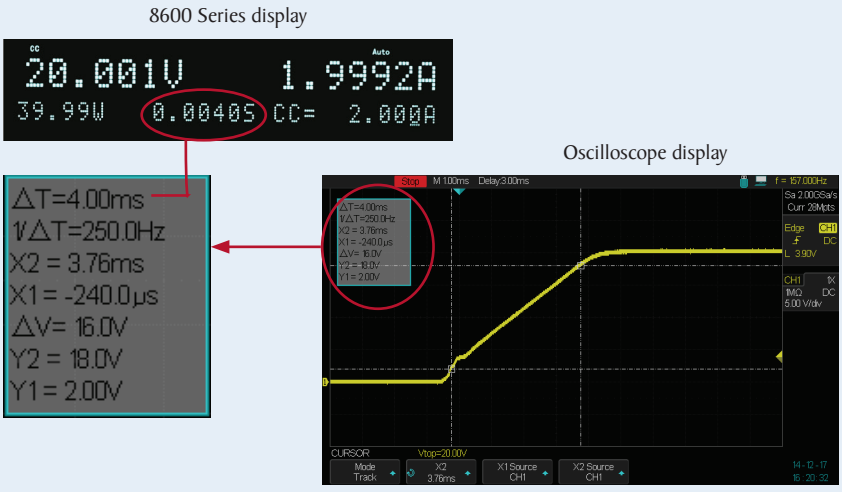

The built-in battery test function uses CC mode to calculate the battery capacity using a fixed current load discharge. Users can specify cut-off voltage level, capacity level, and time stop conditions.

## Voltage-on (Von) latch operation



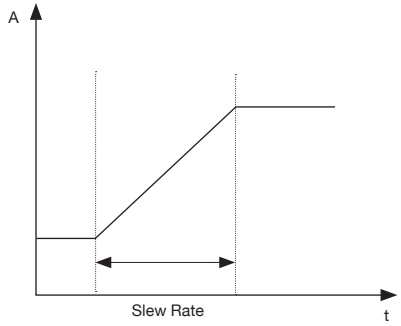

Control the input turn on state for the DC electronic load by configuring the Von latch function. This can be used to start and stop discharging of a battery or other power source at a specified voltage level.

## Built-in rise and fall time measurement




The 8600 Series can measure the rise or fall time from a specified start and stop voltage level of the measured input without the need for an oscilloscope. This function can also be used as an internal timer to count how long the input has been enabled.

## Adjustable slew rate




In CC mode, users can control the rate or slope of the change in current in a transient response test. Set the slew rate to as slow as 0.001 A/ms or as fast as 2.5 A/µs depending on the model and selected current range.

# Specifications

| Model | | 8600 | 8601 | 8602 |
|---|---|---|---|---|
| **Input ratings** | | | | |
| Input voltage | | 0 – 120 V | 0 – 120 V | 0 – 500 V |
| Input current | Low | 0 – 3 A | 0 – 6 A | 0 – 3 A |
| | High | 0 – 30 A | 0 – 60 A | 0 – 15 A |
| Input power | | 150 W | 250 W | 200 W |
| Minimum operating voltage | Low | 0.11 V at 3 A | 0.18 V at 6 A | 1 V at 3 A |
| | High | 1.1 V at 30 A | 1.1 V at 60 A | 4.5 V at 15 A |
| **CV mode** | | | | |
| Range | Low | 0 – 18 V | | 0 – 50 V |
| | High | 0 – 120 V | | 0 – 500 V |
| Resolution | Low | 0.1 mV | | 1 mV |
| | High | 1 mV | | 10 mV |
| Accuracy | Low | ±(0.05%+ 0.02% FS) | ±(0.025%+ 0.05% FS) | ±(0.05%+ 0.025% FS) |
| | High | ±(0.05%+ 0.025% FS) | ±(0.025%+ 0.05% FS) | ±(0.05%+ 0.025% FS) |
| **CC mode** | | | | |
| Range | Low | 0 – 3 A | 0 – 6 A | 0 – 3 A |
| | High | 0 – 30 A | 0 – 60 A | 0 – 15 A |
| Resolution | Low | 0.1 mA | | |
| | High | 1 mA | | |
| Accuracy | Low | ±(0.05%+0.05% FS) | | |
| | High | ±(0.05%+0.05% FS) | | |
| **CR mode** | | | | |
| Range | Low | 0.05 Ω – 10 Ω | | 0.3 Ω – 10 Ω |
| | High | 10 Ω - 7.5 kΩ | | |
| Resolution | | 16 bit | | |
| Accuracy (I>10% of range) | Low | 0.01%+0.08 S (12.5 Ω) | | |
| | High | 0.01%+0.0008 S (1250 Ω) | | |
| **CW mode** | | | | |
| Range | | 150 W | 250 W | 200 W |
| Resolution | | 10 mW | | |
| Accuracy | | 0.1% + 0.1% FS | 0.2% + 0.2% FS | 0.1% + 0.1% FS |
| **Transient mode (CC mode)** | | | | |
| T1 & T2 [1] | | 20 µs – 3600 s / Resolution: 10 µs | | |
| Accuracy | | 5 µs + 100 ppm | | |
| Slew Rate [2] | Low | 0.001-2.5 A/ms | | 0.001-1 A/ms |
| | High | 0.001-2.5 A/µs | | 0.001-1 A/µs |

[1] Fast pulse trains with large transitions may not be achievable.

[2] The slew rate specifications are not warranted, but are descriptions of typical performance. The actual transition time is defined as the time for the input to change from 10% to 90%, or vice versa, of the programmed current values. In case of very large load changes, e.g. from no load to full load, the actual transition time will be larger than the expected time. The load will automatically adjust the slew rate to fit within the range (high or low) that is closest to the programmed value.

| | | | | |
|---|---|---|---|---|
| **Readback voltage** | | | | |
| Range | Low | 0 – 18 V | 0 – 18 V | 0 – 50 V |
| | High | 0 – 120 V | 0 – 120 V | 0 – 500 V |
| Resolution | Low | 0.1 mV | | 1 mV |
| | High | 1 mV | | 10 mV |
| Accuracy | | ±(0.05%+0.05% FS) | | |
| **Readback current** | | | | |
| Range | Low | 0 – 3 A | 0 – 6 A | 0 – 3 A |
| | High | 0 – 30 A | 0 – 60 A | 0 – 15 A |
| Resolution | Low | 0.01 mA | 0.1 mA | 0.01 mA |
| | High | 0.1 mA | 1 mA | 0.1 mA |
| Accuracy | | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) |
| **Readback power** | | | | |
| Range | | 150 W | 250 W | 200 W |
| Resolution | | 10 mW | | |
| Accuracy | | ±(1%+0.1% FS) | ±(0.2%+0.2% FS) | ±(0.1%+0.1% FS) |
| **Protection range (typical)** | | | | |
| OPP | | 150 W | 250 W | 200 W |
| OCP | Low | 3.3 A | 6.6 A | 3.3 A |
| | High | 33 A | 66 A | 16.5 A |
| OVP | | 120 V | 120 V | 500 V |
| OTP | | 185 °F (85 °C) | | |
| **Short circuit (typical)** | | | | |
| Current (CC) | Low | 3.3 A | 6.6 A | 3.3 A |
| | High | 33 A | 66 A | 16.5 A |
| Voltage (CV) | | 0 V | | |
| Resistance (CR) | | 35 mΩ | 30 mΩ | 300 mΩ |
| **General (typical)** | | | | |
| Input terminal impedance | | 150 kΩ | 300 kΩ | 1 MΩ |
| AC input | | 110 V/220 V ±10%, 50/60 Hz | | |
| Operating temperature | | 32 °F to 104 °F (0 °C to 40 °C) | | |
| Storage temperature | | 14 °F to 140 °F (-10 °C to 60 °C) | | |
| Humidity | | Indoor use, ≤ 95% | | |
| Safety | | EN61010-1:2001, EU Low Voltage Directive 2006/95/EC | | |
| Electromagnetic compatibility | | Meets EMC Directive 2004/108/EC, EN 61000-3-2:2006, EN 61000-3-3:1995+A1:2001+A2:2005 EN 61000-4-2/-3/-4/-5/-6/-11, EN 61326-1:2006 | | |
| Dimensions (W x H x D) | | 8.5" x 3.5" x 15.2" (218 x 90 x 387 mm) | | |
| Weight | | 9.9 lbs (4.5 kg) | | |
| | | ***Three-Year Warranty*** | | |
| Standard accessories | | User manual, power cord, certificate of calibration & test report | | |
| Optional accessories | | TLPWR1 high current test leads, IT-E151 rackmount kit (models 8600, 8601, and 8602 only) | | |

## Specifications (cont.)

| Model | | 8610 | 8612 | 8614 | 8616 | 8620 | 8622 | 8624 | 8625 |
|---|---|---|---|---|---|---|---|---|---|
| **Input ratings** | | | | | | | | | |
| Input voltage | | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 120 V |
| Input current | Low | 0 – 12 A | 0 – 3 A | 0 – 24 A | 0 –6 A | 0 – 48 A | 0 – 10 A | 0 – 60 A | 0 – 72 A |
| | High | 0 – 120 A | 0 – 30 A | 0 – 240 A | 0 –60 A | 0 – 480 A | 0 – 100 A | 0 – 600 A | 0 – 720 A |
| Input power | | 750 W | | 1500 W | 1200 W | 3000 W | 2500 W | 4500 W | 6000 W |
| Minimum operating voltage | Low | 0.12 V at 12 A | 0.36 V at 3 A | 0.15 V at 24 A | 0.36 V at 6 A | 0.2 V at 48 A | 0.3 V at 10 A | 0.18 V at 60 A | 0.18 V at 72 A |
| | High | 1.2 V at 120 A | 3.6 V at 30 A | 1.5 V at 240 A | 3.6 V at 60 A | 2 V at 480 A | 3 V at 100 A | 18 V at 600 A | 1.8 V at 720 A |
| **CV mode** | | | | | | | | | |
| Range | Low | 0 – 18 V | 0 – 50 V | 0 – 18 V | 0 – 50 V | 0 – 18 V | 0 – 50 V | 0 – 18 V | 0 – 18 V |
| | High | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 120 V |
| Resolution | Low | 0.1 mV | 1 mV | 0.1 mV | 1 mV | 1 mV | 1 mV | 1 mV | 1 mV |
| | High | 1 mV | 10 mV | 1 mV | 10 mV | 10 mV | 10 mV | 10 mV | 10 mV |
| Accuracy | Low | ±(0.025% + 0.05% FS) | | ±(0.025%+ 0.025% FS) | ±(0.025%+ 0.05% FS) | ±(0.025% + 0.05% FS) | | | |
| | High | ±(0.025% + 0.05% FS) | | | | | | | |
| **CC mode** | | | | | | | | | |
| Range | Low | 0 – 12 A | 0 – 3 A | 0 – 24 A | 0 – 6 A | 0 – 48 A | 0 – 10 A | 0 – 60 A | 0 – 72 A |
| | High | 0 – 120 A | 0 – 30 A | 0 – 240 A | 0 – 60 A | 0 – 480 A | 0 – 100 A | 0 – 600 A | 0 – 720 A |
| Resolution | Low | 1 mA | 0.1 mA | 1 mA | 0.1 mA | 1 mA | 1 mA | 1 mA | 1 mA |
| | High | 10 mA | 1 mA | 10 mA | 1 mA | 10 mA | 10 mA | 10 mA | 10 mA |
| Accuracy | Low | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.025%+ 0.05% FS) | | | |
| | High | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.025%+ 0.05% FS) | | | |
| **CR mode** | | | | | | | | | |
| Range | Low | 0.02 Ω – 10 Ω | 0.15 Ω – 10 Ω | 0.01 Ω – 10 Ω | 0.01 Ω – 10 Ω | 0.01 Ω – 10 Ω | 0.03 Ω – 10 Ω | 0.01 Ω – 10 Ω | 0.005 Ω – 10 Ω |
| | High | 10 Ω - 7.5 kΩ | | | | | | | |
| Resolution | | 16 bit | | | | | | | |
| Accuracy (I>10% of range) | Low | 0.01%+0.08 S (12.5 Ω) | | | | | | | |
| | High | 0.01%+0.0008 S (1250 Ω) | | | | | | | |
| **CW mode** | | | | | | | | | |
| Range | | 750 W | | 1500 W | 1200 W | 3000 W | 2500 W | 4500 W | 6000 W |
| Resolution | | 10 mW | | 100 mW | | | | | |
| Accuracy | | 0.2% + 0.2% FS | | | | | | | |
| **Transient mode (CC mode)** | | | | | | | | | |
| T1 & T2 [1] | | 20 µs – 3600 s / Resolution: 10 µs | | | | | | | |
| Accuracy | | 5 µs + 100 ppm | | | | | | | |
| Slew Rate [2] | Low | 0.001-0.25 A/µs | 0.0001-0.1 A/µs | 0.001-0.25 A/µs | 0.0001-0.1 A/µs | 0.001-0.25 A/µs | 0.001-0.1 A/µs | 0.001-0.25 A/µs | 0.001-0.25 A/µs |
| | High | 0.01-2.5 A/µs | 0.001-1 A/µs | 0.01-2.5 A/µs | 0.001-1 A/µs | 0.01-2.5 A/µs | 0.01-1 A/µs | 0.01-2.5 A/µs | 0.01-2.5 A/µs |

[1] Fast pulse trains with large transitions may not be achievable.

[2] The slew rate specifications are not warranted, but are descriptions of typical performance. The actual transition time is defined as the time for the input to change from 10% to 90%, or vice versa, of the programmed current values. In case of very large load changes, e.g. from no load to full load, the actual transition time will be larger than the expected time. The load will automatically adjust the slew rate to fit within the range (high or low) that is closest to the programmed value.

## Specifications (cont.)

| Model | | 8610 | 8612 | 8614 | 8616 | 8620 | 8622 | 8624 | 8625 |
|---|---|---|---|---|---|---|---|---|---|
| **Readback voltage** | | | | | | | | | |
| Range | Low | 0 – 18 V | 0 – 50 V | 0 – 18 V | 0 – 50 V | 0 – 18 V | 0 – 50 V | 0 – 18 V | |
| | High | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 500 V | 0 – 120 V | 0 – 120 V |
| Resolution | Low | 0.1 mV | 1 mV | 0.1 mV | 1 mV | | | | |
| | High | 1 mV | 10 mV | 1 mV | 10 mV | | | | |
| Accuracy | | ±(0.05% + 0.05% FS) | | | | ±(0.025% + 0.025% FS) | | | |
| **Readback current** | | | | | | | | | |
| Range | Low | 0 – 12 A | 0 – 3 A | 0 – 24 A | 0 – 6 A | 0 – 48 A | 0 – 10 A | 0 – 60 A | 0 – 72 A |
| | High | 0 – 120 A | 0 – 30 A | 0 – 240 A | 0 – 60 A | 0 – 480 A | 0 – 100 A | 0 – 600 A | 0 – 720 A |
| Resolution | Low | 1 mA | 0.1 mA | 1 mA | 0.1 mA | 1 mA | | | |
| | High | 10 mA | 1 mA | 10 mA | 1 mA | 10 mA | | | |
| Accuracy | | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | ±(0.05%+ 0.05% FS) | ±(0.05%+ 0.1% FS) | |
| **Readback power** | | | | | | | | | |
| Range | | 750 W | | 1500 W | 1200 W | 3000 W | 2500 W | 4500 W | 6000 W |
| Resolution | | 10 mW | | 100 mW | | | | | |
| Accuracy | | ±(0.2% + 0.2% FS) | | | | | | | |
| **Protection range (typical)** | | | | | | | | | |
| OPP | | 760 W | | 1550 W | 1250 W | 3050 W | 2550 W | 4550 W | 6050 W |
| OCP | Low | 13.2 A | 3.3 A | 26.4 A | 6.6 A | 26.4 A | 11 A | 66 A | 79.2 A |
| | High | 132 A | 33 A | 264 A | 66 A | 264 A | 110 A | 660 A | 792 A |
| OVP | | 130 V | 530 V | 130 V | 530 V | 130 V | 530 V | 130 V | 130 V |
| OTP | | 185 °F (85 °C) | | | | | | | |
| **Short circuit (typical)** | | | | | | | | | |
| Current (CC) | Low | 13.2 A | 3.3 A | 26.4 A | 6.6 A | 52.8 A | 11 A | 66 A | 79.2 A |
| | High | 132 A | 33 A | 264 A | 66 A | 528 A | 110 A | 660 A | 793 A |
| Voltage (CV) | | 0 V | | | | | | | |
| Resistance (CR) | | 10 mΩ | 120 mΩ | 6 mΩ | 60 mΩ | 5 mΩ | 30 mΩ | 3 mΩ | 2.5 mΩ |
| **General (typical)** | | | | | | | | | |
| Input terminal impedance | | 300 kΩ | 1 MΩ | 300 kΩ | 1 MΩ | 300 kΩ | 1 MΩ | 300 kΩ | 300 kΩ |
| AC input | | 110 V/220 V ±10%, 50/60 Hz | | | | | | | |
| Operating temperature | | 32 °F to 104 °F (0 °C to 40 °C) | | | | | | | |
| Storage temperature | | 14 °F to 140 °F (-10 °C to 60 °C) | | | | | | | |
| Humidity | | Indoor use, ≤ 95% | | | | | | | |
| Safety | | EN61010-1:2001, EU Low Voltage Directive 2006/95/EC | | | | | | | |
| Electromagnetic compatibility | | Meets EMC Directive 2004/108/EC, EN 61000-3-2:2006, EN 61000-3-3:1995+A1:2001+A2:2005 EN 61000-4-2/-3/-4/-5/-6/-11, EN 61326-1:2006 | | | | | | | |
| Dimensions (W x H x D) | | 17.3" x 5.3" x 22.5" (439 x 133.3 x 580 mm) | | | | | | 17.3" x 10.5" x 23.2" (439 x 266 x 590 mm) | |
| Weight | | 54 lbs (24.6 kg) | | | | | | 142 lbs (64.4 kg) | |
| ***Three-Year Warranty*** | | | | | | | | | |
| Standard accessories | | User manual, power cord, certificate of calibration & test report | | | | | | | |
| Optional accessories | | TLPWR1 high current test leads | | | | | | | |

Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

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Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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