## OPERATION

**Constant Current:** 0 to selected full scale current
  - Prog. Accuracy (Range): (high/med) ranges: ±0.5%
  - Regulation: ±0.1% of selected full scale
  - Resolution(IEEE): 1/4000 of selected full scale

**Constant Resistance:** Constant Resistance mode operates in Amps/Volt, IEEE units entered in ohms or A/V
  - Prog. Accuracy: ±3% of selected full scale
  - Regulation: ±3% of selected full scale
  - Resolution(IEEE): 1/4000 of selected full scale

**Constant Voltage:** 0 to selected full scale
  - Prog. Accuracy (Range): (high/med) ranges: ±0.5%
  - Regulation: ±0.15% of selected full scale
  - Resolution(IEEE): 1/4000 of selected full scale

**Constant Power:** 0 to full scale power
  - Prog. Accuracy: ±3% of full scale
  - Regulation: ±3% of full scale
  - Resolution(IEEE): 1/4000 of full scale power

### ANALOG MODE

**Ext. Prog:** 0 to 10 Volts input yields 0 to selected full scale loading in all operating modes.
- Input Impedance: 330k Ohms
- Prog. Response: Limited by internal adjustable slew rate limiter

**Frequency:** 0 to 20 KHz in Cl mode

### PULSE MODE

**Frequency:** 0.06Hz to 3.33kHz
- Accuracy: 0.1%
- Duty Cycle: .1% to 99.9%
- Accuracy: 0.1%

**Adjustable Slew Rate:**
  - Max: 0 to full scale in 10µS
  - Min: 0 to full scale in .4 sec.

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### OUTPUT SIGNALS

**Current Sample Output:**
- Scaling: 10 Volts = selected full scale
- Accuracy: ±0.5% of selected full scale

**Sync Output:**
- Timing: Synchronous with pulse generator.
- Output: Sink with 10k pull up to +15V

**PROTECTION**

**Current Limit:**
- Range(IEEE): 0 - 105% of selected full scale
- Resolution(IEEE): 1/256 of selected full scale

**Voltage Limit:**
- Range(IEEE): 0 - 105% of selected full scale
- Resolution(IEEE): 1/256 of selected full scale

**Power Limit:**
- Range(IEEE): 0 - 6300 Watts
- Resolution(IEEE): 1/256 of full scale

**Thermal:**
- Load disconnect at internal temperature of 105°C

**Undervoltage:**
- Load inhibited at less than 1 Volt, when enabled

### IEEE-488 READBACKS

**Current:**
- Resolution: 1/4000 of Selected Full Scale
- Accuracy(Range): (High/Medi): ±0.25% ±1 Digit
  - (Low): ±0.5% ±1 Digit

**Voltage:**
- Resolution: 1/4000 of Selected Full Scale
- Accuracy(Range): (High/Medi): ±0.25% ±1 Digit
  - (Low): ±0.5% ±1Digit

**Power:**
- Resolution: 1 Watt
- Accuracy: 0.50%

### MISCELLANEOUS

**AC Input:**
- User Selectable 100VAC, 120VAC, 200VAC, 240VAC, ±10%, 48 - 62 Hz @ 350W

**Ambient Temp:**
- 0°C to 40°C

**WEIGHT:**
- 95 lbs. / 43.2 kg

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*Note: Testing performed using low inductance cables in CI mode with a high capacity source.*
The broad range of power ratings (up to 6000 watts), voltage and currents ratings (Up to 600 amperes at 1.0 volts and up to 600 volts at 10 amperes) together with precision ethernet control, IEEE488, and RS232 readback makes the RBL488 Series of electronic loads an ideal choice for general as well as special purpose testing of power supplies, batteries, fuel cells generators and DC Power Sources.

Features include constant resistance, constant voltage, constant current, constant power and pulse load transient testing with selectable 4000 bit resolution readback scales of voltage, current and power.

- High Speed Adjustable Slew Rate
- Pulse Load Shaping
- Front Panel or Remote Control
- Full Range Switching
- Operation to Less Than 200mv
- Quiet Variable Speed Fans
- Programmable Undervoltage