### General Specifications

**Operation**

- **Constant Current**: 0 to selected full scale current
  - Prog. Accuracy (Range): (high/med) ranges: ±0.25%, (low) range: ±0.5%
  - Regulation: ±0.1% 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
- **Constant Voltage**: 0 to selected full scale
  - Prog. Accuracy (Range): (high/med) ranges: ±0.25%, (low): ±0.5%
  - Regulation: ±0.15% of selected full scale
- **Constant Power**: 0 to full scale power
  - Prog. Accuracy: ±3% of full scale
  - Regulation: ±3% of full scale

**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

**Pulse Mode**

- **Frequency**: 0.06Hz to 20kHz
- **Accuracy**: 0.1%
- **Duty Cycle**: 10 - 90% (Analog)
- **Accuracy**: 0.1%

**Output Signals**

- **Adjustable Slew Rate**:
  - Max: 0 to full scale in 10µS
  - Min: 0 to full scale in 10mS

**Protection**

- **Current Limit**: Analog Models: Approximately 105% of selected full scale current
- **Voltage Limit**: Analog Models: Load disconnect at 105% of selected full scale voltage
- **Power Limit**: Analog Models: Approximately 4250 Watts
- **Thermal**: Load disconnect at internal temperature of 105°C
- **Undervoltage**: Load inhibited at less than1 Volt, when enabled

**Miscellaneous**

- **AC Input**: User Selectable 100VAC, 120VAC, 200VAC, 240VAC, ±10%, 48 - 62 Hz @ 350W
- **Ambient Temp.**: 0°C to 40°C
SAFE OPERATING AREA & SPECIFICATIONS

Like the 2000W analog model, the RBL 800 watt analog programmable series has no compromise on performance, while adding a simple analog interface. Sleek and compact, the 800W model is ready to address all low-to-mid power load and test requirements. The analog programmable RBL 800W series provides all modes of operation, all functions, full scale range switching and master/slave paralleling standard. The 800W RBL model allows the customer the ultimate in flexibility when it comes to decision time! Stand alone or 19 inch rack mountable (see accessories page 33) unit will meet or exceed all your performance, reliability and quality expectations.

- **High Speed Adjustable Slew Rate**
- **Front Panel or Remote Control**
- **Pulse Load Shaping**
- **Full Range Switching**

### RBL 100-120-800

**OPERATING RANGES (FULL SCALES)**
- **Voltage:** 10 Volts, 50 Volts, 100 Volts
- **Current:** 2 Amps, 20 Amps, 120 Amps
- **Power:** 800 Watts
- **Short Circuit:** 0.007 Ohms max.

**CONSTANT RESISTANCE RANGES**

**High Ohms Mode**
- **Range:** 2A, 20A, 120A
  - **10V:** 0-.1 A/V, 0-.7 A/V, 0-.7 A/V
  - **50V:** 0-.02 A/V, 0-.2 A/V, 0-.2 A/V
  - **100V:** 0-.01 A/V, 0-.1 A/V, 0-.1 A/V

**Low Ohms Mode**
- **Range:** 2A, 20A, 120A
  - **10V:** 0-.1 A/V, 0-.1 A/V, 0-.1 A/V
  - **50V:** 0-.02 A/V, 0-.2 A/V, 0-.2 A/V
  - **100V:** 0-.01 A/V, 0-.1 A/V, 0-.1 A/V

**INPUT CHARACTERISTICS:**

### RBL 400-120-800

**OPERATING RANGES (FULL SCALES)**
- **Voltage:** 20 Volts, 200 Volts, 400 Volts
- **Current:** 2 Amps, 20 Amps, 120 Amps
- **Power:** 800 Watts
- **Short Circuit:** 0.003 Ohms max.

**CONSTANT RESISTANCE RANGES**

**High Ohms Mode**
- **Range:** 2A, 20A, 120A
  - **20V:** 0-.05 A/V, 0-.5 A/V, 0-.5 A/V
  - **200V:** 0-.005 A/V, 0-.05 A/V, 0-.05 A/V
  - **400V:** 0-.0025 A/V, 0-.025 A/V, 0-.025 A/V

**Low Ohms Mode**
- **Range:** 2A, 20A, 120A
  - **20V:** 0-.5 A/V, 0-5 A/V, 0-5 A/V
  - **200V:** 0-.05 A/V, 0-.5 A/V, 0-.5 A/V
  - **400V:** 0-.025 A/V, 0-.25 A/V, 0-.25 A/V

**INPUT CHARACTERISTICS:**

### RBL 600-40-800

**OPERATING RANGES (FULL SCALES)**
- **Voltage:** 20 Volts, 200 Volts, 600 Volts
- **Current:** 2 Amps, 20 Amps, 40 Amps
- **Power:** 800 Watts
- **Short Circuit:** 0.035 Ohms max.

**CONSTANT RESISTANCE RANGES**

**High Ohms Mode**
- **Range:** 2A, 20A, 40A
  - **20V:** 0-.05 A/V, 0-.5 A/V, 0-.5 A/V
  - **200V:** 0-.005 A/V, 0-.05 A/V, 0-.05 A/V
  - **400V:** 0-.0025 A/V, 0-.025 A/V, 0-.025 A/V

**Low Ohms Mode**
- **Range:** 2A, 20A, 40A
  - **20V:** 0-.5 A/V, 0-10 A/V, 0-10 A/V
  - **200V:** 0-.05 A/V, 0-1 A/V, 0-1 A/V
  - **400V:** 0-.025 A/V, 0-.5 A/V, 0-.5 A/V

**INPUT CHARACTERISTICS:**
RBL & RBL488 SERIES OUTLINES

800W OUTLINE

400W OUTLINE