



## GENERAL SPECIFICATIONS

### OPERATION

**Constant Current:** 0 to selected full scale current  
 Prog. Accuracy  
 (Range): (high/med) ranges:  $\pm 0.25\%$   
 (low) range:  $\pm 0.5\%$

Regulation:  $\pm 0.1\%$  of selected full scale

**Constant Resistance:** Constant Resistance mode operates in Amps/Volt, IEEE units entered in ohms or A/V

Prog. Accuracy:  $\pm 3\%$  of selected full scale  
 Regulation:  $\pm 3\%$  of selected full scale

**Constant Voltage:** 0 to selected selected full scale  
 Prog. Accuracy  
 (Range):

(high/med) ranges:  $\pm 0.25\%$

(low):  $\pm 0.5\%$

Regulation:  $\pm 0.15\%$  of selected full scale

**Constant Power:** 0 to full scale power

Prog. Accuracy:  $\pm 3\%$  of full scale

Regulation:  $\pm 3\%$  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%

### Adjustable Slew Rate:

Max: 0 to full scale in 10 $\mu$ S

Min: 0 to full scale in 10ms

### OUTPUT SIGNALS

#### Current Sample Output:

Scaling: 10 Volts = selected full scale

Accuracy:  $\pm 0.5\%$  of selected full scale

#### Sync Output:

Timing: Synchronous with pulse generator.

Output: Sink with 10k pull up to +15V

### 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 than 1 Volt, when enabled

### MISCELLANEOUS

**AC Input:** User Selectable 100VAC, 120VAC, 200VAC, 240VAC,  $\pm 10\%$ , 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
- Pulse Load Shaping
- Front Panel or Remote Control
- 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

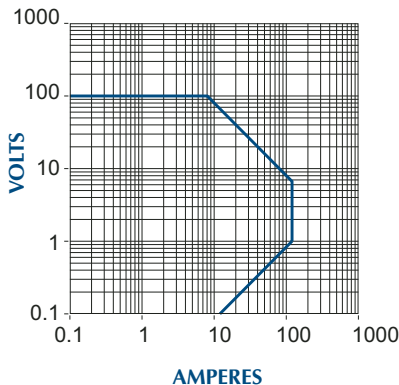
#### High Ohms Mode

Range	2A	20A	120A
10V	0-.1 A/V	0-1 A/V	0-6 A/V
50V	0-.02 A/V	0-.2 A/V	0-1.2 A/V
100V	0-.01 A/V	0-.1 A/V	0-.6 A/V

#### Low Ohms Mode

Range	2A	20A	120A
10V	0-.1 A/V	0-10 A/V	0-60 A/V
50V	0-.2 A/V	0-2 A/V	0-12 A/V
100V	0-.1 A/V	0-1 A/V	0-6 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:** 0.03 Ohms max.

### CONSTANT RESISTANCE RANGES

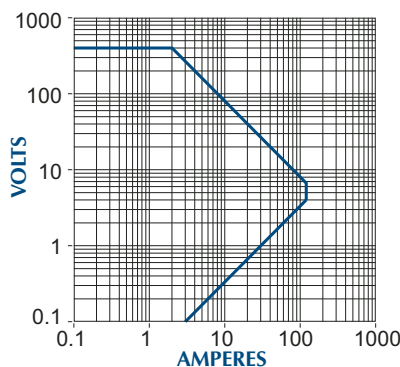
#### High Ohms Mode

Range	2A	20A	120A
20V	0-.05 A/V	0-.5 A/V	0-3 A/V
200V	0-.005 A/V	0-.05 A/V	0-.3 A/V
400V	0-.0025 A/V	0-.025 A/V	0-.15 A/V

#### Low Ohms Mode

Range	2A	20A	120A
20V	0-.5 A/V	0-5 A/V	0-30 A/V
200V	0-.05 A/V	0-.5 A/V	0-3 A/V
400V	0-.025 A/V	0-.25 A/V	0-1.5 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

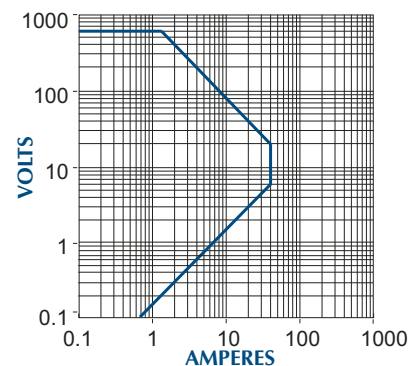
#### High Ohms Mode

Range	2A	20A	40A
20V	0-.05 A/V	0-.5 A/V	0-1 A/V
200V	0-.005 A/V	0-.05 A/V	0-.1 A/V
400V	0-.0025 A/V	0-.025 A/V	0-.05 A/V

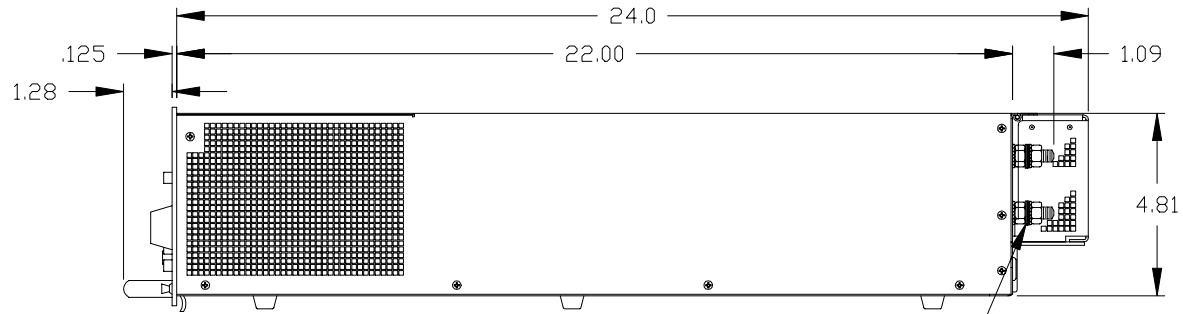
#### Low Ohms Mode

Range	2A	20A	40A
20V	0-.5 A/V	0-5 A/V	0-10 A/V
200V	0-.05 A/V	0-.5 A/V	0-1 A/V
400V	0-.025 A/V	0-.25 A/V	0-.5 A/V

### INPUT CHARACTERISTICS:



# 800W OUTLINE



5/16-18 INPUT STUDS

(SAFETY COVER NOT SHOWN)

