



## 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  
 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:  $\pm 3\%$  of selected full scale  
 Regulation:  $\pm 3\%$  of selected full scale  
 Resolution(IEEE): 1/4000 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  
 Resolution(IEEE): 1/4000 of selected full scale  
**Constant Power:** 0 to full scale power  
 Prog. Accuracy:  $\pm 3\%$  of full scale  
 Regulation:  $\pm 3\%$  of full scale  
 Resolution(IEEE): 0.25% 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

### PULSE MODE

Frequency: 0.06Hz to 20kHz  
 Accuracy: 0.1%  
 Duty Cycle: 0 - 100%(IEEE), 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:** Synchronous with pulse generator.  
 Output: Sink with 10k pull up to +15V

### PROTECTION

**Current Limit:** Analog Models: Approximately 105% of selected full

scale current  
 Range(IEEE): 0 - 105% of selected full scale  
 Resolution(IEEE): 0.5% of selected full scale

**Voltage Limit:** Load disconnect at 105% of selected full scale voltage  
 Analog Models: Load disconnect at 105% of selected full scale voltage

Range(IEEE): 0 - 105% of selected full scale  
 Resolution(IEEE): 0.5% of selected full scale

**Power Limit:** Analog Models: Approximately 4250 Watts  
 Range(IEEE): 0 - 4200 Watts  
 Resolution(IEEE): 20 Watts

**Thermal:** Load disconnect at internal temperature of 105°C  
 Load inhibited at less than 1 Volt, when enabled

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

### IEEE-488 READBCKS

**Current:** Resolution: 1/4000 of Selected Full Scale  
 Accuracy(Range): (High/Med):  $\pm 0.25\% \pm 1$  Digit  
 (Low):  $\pm 0.5\% \pm 1$  Digit

**Voltage:** Resolution: 1/4000 of Selected Full Scale  
 Accuracy(Range): (High/Med):  $\pm 0.25\% \pm 1$  Digit  
 (Low):  $\pm 0.5\% \pm 1$  Digit

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

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

**Ambient Temp:** 0°C to 40°C

### RBL488 50-150-800

#### OPERATING RANGES (FULL SCALES)

**Voltage:** 10 Volts, 20 Volts, 50 Volts  
**Current:** 2 Amps, 20 Amps, 150 Amps  
**Power:** 800 Watts  
**Short Circuit:** 0.0026 Ohms max.

#### CONSTANT RESISTANCE RANGES

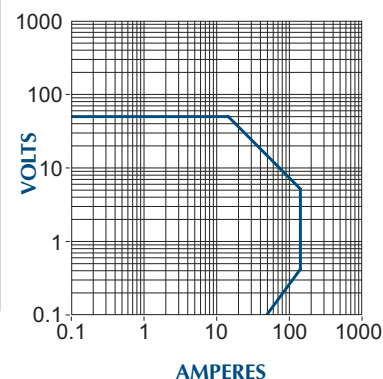
**High Ohms Mode**

Range	2A	20A	150A
10V	0-1 A/V	0-1 A/V	0-7.5 A/V
20V	0-.05 A/V	0-.5 A/V	0-3.75 A/V
50V	0-.02 A/V	0-.2 A/V	0-1.5 A/V

**Low Ohms Mode**

Range	2A	20A	150A
10V	0-1 A/V	0-10 A/V	0-75 A/V
20V	0-.5 A/V	0-5 A/V	0-37.5 A/V
50V	0-.2 A/V	0-2 A/V	0-15 A/V

#### INPUT CHARACTERISTICS:



# SAFE OPERATING AREA & SPECIFICATIONS

The RBL488-800 watt series is sleek and compact. The 800W model is ready to address all low-to-mid power load and test requirements and provides all modes of operation, all functions, full scale range switching and master/slave paralleling standard. The 800W RBL model provides the customer the ultimate in flexibility when it comes to decision time! Stand alone or 19 inch rack mountable (see accessories page 33). This series will meet or exceed all your performance, reliability and quality expectations.

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

## RBL488 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

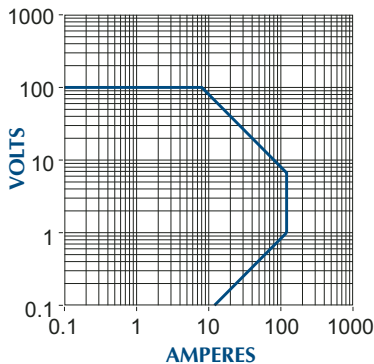
#### High Ohms Mode

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:



## RBL488 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

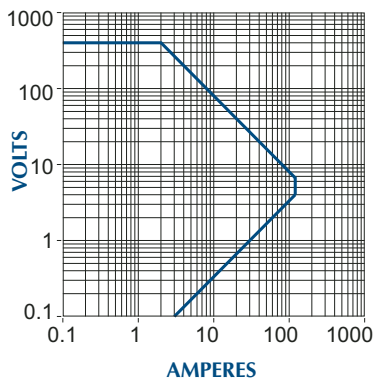
#### High Ohms Mode

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:



## RBL488 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

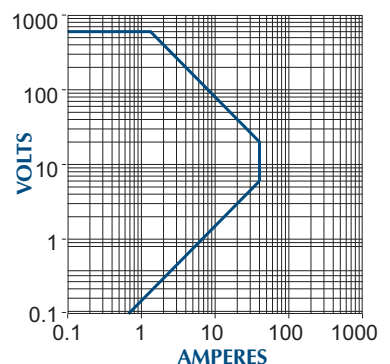
#### High Ohms Mode

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

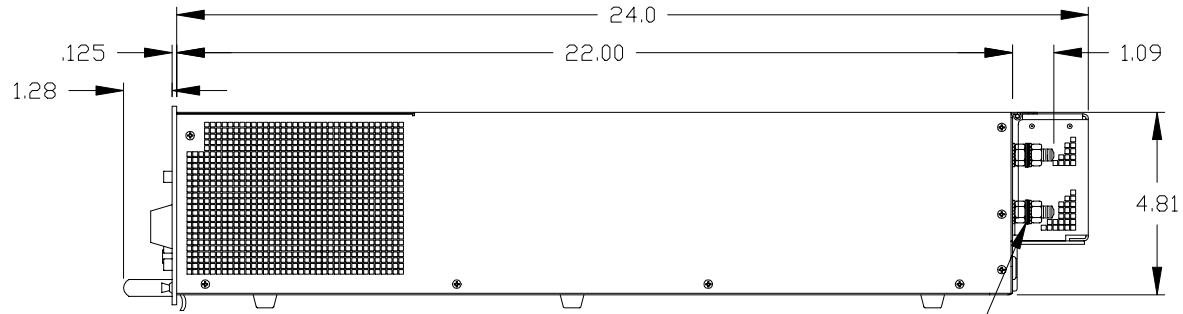
Range	2A	20A	40A
20V	0-.5 A/V	0-5 A/V	0-10 A/V
200V	0-.05 A/V	0-.5 A/V	0-1 A/V
400V	0-.025 A/V	0-.25 A/V	0-.5 A/V

### INPUT CHARACTERISTICS:



[www.tdipower.com](http://www.tdipower.com)

# 800W OUTLINE



5/16-18 INPUT STUDS

(SAFETY COVER NOT SHOWN)

