

# **Advanced Test Equipment Rentals** www.atecorp.com 800-404-ATEC (2832)



# RBL488 Series 6000 Watts



# GENERAL SPECIFICATIONS

**OPERATION** 

Constant Current: 0 to selected full scale current

Prog. Accuracy

(Range): (high/med) ranges: ±0.5%

(low) range: ±0.5% ±0.1% of selected full scale Regulation:

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 ±3% of selected full scale ±3% of selected full scale Prog. Accuracy: Regulation: Resolution(IEEE): 1/4000 of selected full scale Constant Voltage: 0 to selected selected full scale

Prog. Accuracy (Range): (high/med) ranges:± 0.5% (low):

± 0.5% ±0.15% of selected full scale 1/4000 of selected full scale Regulation: Resolution(IEEE):

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

Ext. Prog: 0 to 10 Volts input yields 0 to selected full scale

0 to 20 KhZ in CI mode

loading in all operating modes.

Input Impedance: 330k Öhms

Limited by internal adjustable slew rate limiter Prog. Response:

Frequency: PULSE MODE

0.06Hz to 3.333kHz Frequency:

0.1% .1% to 99.9% Accuracy: Duty Cycle: Accurácy 0.1%

Adjustable Slew Rate:

0 to full scale in 10µS \*Max: Min: 0 to full scale in .4 sec. **OUTPUT SIGNALS** 

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

Sync Output:

Tíming: Synchronous with pulse generator. Output: PROTECTION Sink with 10k pull up to +15V

**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): Resolution(IEEE): Thermal:

0 - 6300 Watts 1/256 of full scale Load disconnect at internal temperature of 105°C

Undervoltage: Load inhibited at less than1 Volt, when enabled

**IEEE-488 READBACKS** 

**Current:** 

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

Voltage:

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

Power:

Resolution: 1 Watt Accuracy: MISCELLANEOUS 0.50%

AC Input:

User Selectable 100VAC, 120VAC, 200VAC, 240VAC, ±10%, 48 - 62 Hz @ 350W 0°C to 40°C

Ambient Temp: MECHANICAL Weight: 95 lbs. / 43.2 kg

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

#### RBL488 100-600-6000

#### **OPERATING RANGES (FULL SCALE range)**

Voltage: 10 Volts, 50 Volts, 100 Volts
Current: 20 Amps, 200 Amps, 600 Amps

Power: 6000 Watts
Short Circuit: 0.003 Ohms max.

#### **CONSTANT RESISTANCE RANGES**

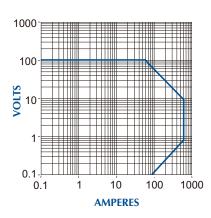
#### High Ohms Mode

Range	<u>20A</u>	<u>200A</u>	<u>600A</u>
10V	0-1 A/V	0-10 A/V	0-30 AV
50V	02 A/V	0-2 A/V	0-6 A/V
100V	01 A/V	0-1 A/V	0-3 A/V

#### Low Ohms Mode

kange	<u>20A</u>	<u>200A</u>	<u>600A</u>
10V	0-10 AV	0-100 A/V	0-300 A/V
50V	0-2 A/V	0-20 A/V	0-60 AV
100V	0-1 A/V	0-10 A/V	0-30 A/V

# **INPUT CHARACTERISTICS:**



#### RBL488 400-600-6000

#### **OPERATING RANGES (FULL SCALES)**

Voltage: 20 Volts, 200 Volts, 400 Volts

Current: 20 Amps, 200 Amps, 600 Amps

Power: 6000 Watts
Short Circuit: 0.010 Ohms max.
CONSTANT RESISTANCE RANGES

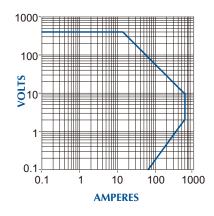
# High Ohms Mode

Range	<u>20A</u>	<u>200A</u>	<u>600A</u>
20V	05 A/V	0-5 A/V	0-15 AV
200V	005 A/V	0-5 A/V	0-1.5 AV
400V	0025 A/V	025 A/V	075 A/V

#### Low Ohms Mode

Range	<u>20A</u>	200A	<u>600A</u>
20V	0-5 A/V	0-50 A/V	0-150 A/V
200V	05 A/V	0-2.5 A/V	0-15 A/V
400V	0- 25A/V	0-2 5 A/V	0-7 5 A/V

## **INPUT CHARACTERISTICS:**



#### RBL488 600-200-6000

#### **OPERATING RANGES (FULL SCALES)**

Voltage: 20 Volts, 200 Volts, 600 Volts

Current: 2 Amps, 20 Amps, 200 Amps

Power: 6000 Watts

Short Circuit: 0.014 Ohms max.

CONSTANT RESISTANCE RANGES

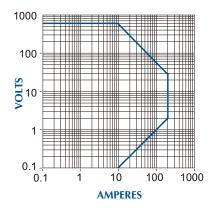
#### High Ohms Mode

Range	<u>2A</u>	<u>20A</u>	200A
20V	005 A/V	05 AV	0-5A/V
200V	0005 A/V	005 A/V	05 AV
600V	00016 A/V	0016 A/V	0166 AA

#### Low Ohms Mode

Range	<u>2A</u>	<u>20A</u>	200A
20V	05 A/V	0-5 AV	0-50 A/V
200V	005 A/V	05 A/V	0-5 A/V
600V	0016 A/V	0166 A/V	0-1.666A/\

## **INPUT CHARACTERISTICS:**



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