

RBL488 SERIES 6000 WATTS



GENERAL SPECIFICATIONS

OPERATION

Constant Current: 0 to selected full scale current Prog. Accuracy (high/med) ranges: ±0.5% (low) range: ±0.5% (Range): 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: $\pm 3\%$ 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:± 0.5% (low): $\pm 0.5\%$ 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** 0 to 10 Volts input yields 0 to selected full scale Ext. Prog: Input Impedance: 330k Ohms Limited by internal adjustable slew rate limiter Prog. Response: 0 to 20 KhZ in CI mode Frequency: PULSE MODE Frequency: 0.06Hz to 3.333kHz 0.1% .1% to 99.9% 0.1% Accuracy: Duty Cycle: Accuracy: 0.19 Adjustable Slew Rate: 0 to full scale in 10µS *Max: Min: 0 to full scale in .4 sec.

OUTPUT SIGNALS

OUT OF SIGNA	
Current Sample C	
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 than1
	Volt, when enabled
IEEE-488 READBA	ACKS
Current:	
Resolution:	1/4000 of Selected Full Scale
Accuracy(Range):	(High/Med): ±0.25% ±1 Digit
	(Low): ±0.5% ±1 Digit
Voltage:	
Resolution:	1/4000 of Selected Full Scale
Accuracy(Range):	
	(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
MECHANICAL	

Weight: 95

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

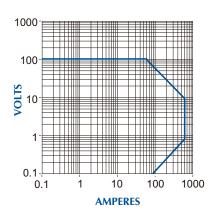
 Short Circuit:
 0.003 Ohms max.

CONSTANT RESISTANCE RANGES

High Ol	nms Mode
Pango	204

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

INPUT CHARACTERISTICS:



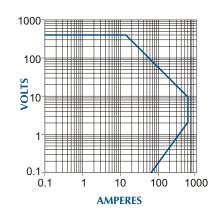
RBL488 400-600-6000

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

Then Online Woode				
Range	<u>20A</u>	<u>200A</u>	<u>600A</u>	
20V	05 A/V	0-5 A/V	0-15 A/V	
200V	005 A/V	0-5 A/V	0-1.5 A/V	
400V	0025 A/V	025 A/V	075 A/V	
Low Ohms Mode				
Range	<u>20A</u>	<u>200A</u>	<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	025A/V	0-2.5 A/V	0-7.5 A/V	

INPUT CHARACTERISTICS:



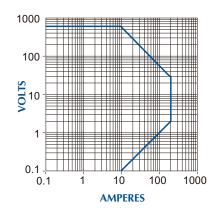
RBL488 600-200-6000

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> 20A 200A 0-.5 A/V 20V 0-.05 A/V 0-5A/V 200V 0-.005 A/V 0-05 A/V 0-.5 A/V

600V	00016 A/V	0016 A/V	0166 A/V	
Low Ohms Mode				
Range	<u>2A</u>	<u>20A</u>	<u>200A</u>	
20V	05 A/V	0-5 A/V	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/V	

INPUT CHARACTERISTICS:



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