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RBL488 Series 400 Watts





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
Resolution(IEEE): 1/4000 of selected full scale
Constant Resistance: Constant Resistance mode operates in Amps/Volt units entered in ohms or A/V
Prog. Accuracy: ±3% of selected full scale
Regulation: ±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: ±0.25%
(low): ± 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): 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 10µS
Min: 0 to full scale in 10mS

OUTPUT SIGNALS

Current Sample Output:
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:
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:
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
Undervoltage: Load inhibited at less than1 Volt, when enabled

IEEE-488 READBACKS

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): (High/Med): ±0.25% ±1 Digit
(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

- **High Speed Adjustable Slew Rate**
- **Front Panel or Remote Control**
- **Operation to Less Than 200mv**
- **Pulse Load Shaping**
- **Full Range Switching**
- **IEEE-488 Standard, RS-232 Available**

Safe Operating Area & Specifications

Even more compact than the 800W RBL model, the 400W model is the newest addition to the RBL family. The RBL488 400 watt models offer full size load capabilities in a VERY compact size. The RBL488 400 Watt model will sink up to 60 amps for 400 watt requirements but never sacrifice accuracy at lighter load levels. With its compact size and convenient carrying handle, this model is an excellent choice for portable applications and miscellaneous fieldwork.

RBL488 100-60-400

OPERATING MODES

Constant Current: 0 to selected full scale current
Program Accuracy: 60A, 30A and 6A ranges +/-0.5
Regulation: +/- 0.1% of full scale
Resolution: 1/4000 of selected full scale
Constant Resistance: Operates in Ohms or Amps/Volt (selectable)
Program Accuracy: +/- 3% of full scale
Regulation: +/- 3% of full scale
Resolution: 1/4000 of selected full scale

High Ohms Mode

Range	6A	30A	60A
10V	0-.3 A/V	0-1.5 A/V	0-3 A/V
50V	0-.06 A/V	0-.3 A/V	0-.6 A/V
100V	0-.03 A/V	0-.15 A/V	0-.3 A/V

Low Ohms Mode

Range	6A	30A	60A
10V	0-3 A/V	0-15 A/V	0-30 A/V
50V	0-.6 A/V	0-3 A/V	0-6 A/V
100V	0-.3A/V	0-1.5 A/V	0-3 A/V

Constant Voltage: 0 to selected full scale current
Program Accuracy: 100V, 50V and 10V ranges +/-0.5
Regulation: +/- 0.15% of full scale
Resolution: 1/4000 of selected full scale
Constant Power: 0 – 400 Watts
Program Accuracy: +/- 4% of full scale
Regulation: +/- 4% of full scale
Resolution: 0.1 Watts
Short circuit: 0.05 Ohms Max.

PULSE MODES

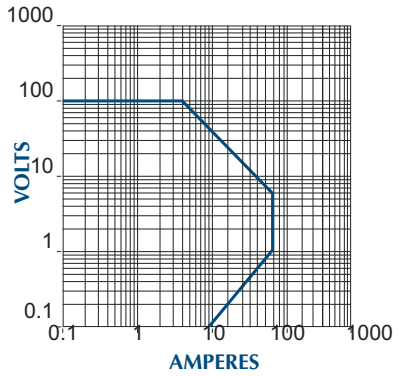
Operation: Pulse added on top of D.C. setpoint May be used in conjunction with external programming
Frequency: .01 to 3333Hz.
Accuracy: .1%
Duty Cycle: 0 – 100%
Accuracy: .1%
Slew Rate: 10 micro seconds to .4 seconds

OUTPUT SIGNALS

Current Sample Output
Scaling: 10 Volts = Selected full scale current
Accuracy: .5% of full scale
Sync Output:
Timing: Synchronous with pulse generator
Output: Sink with 10K ohm up to +15VDC

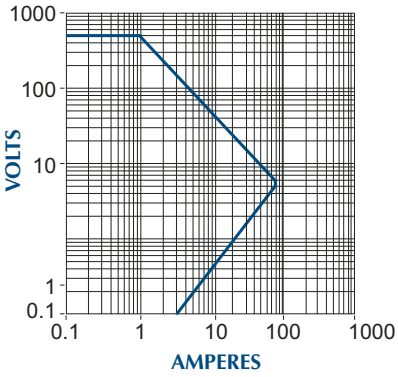
INPUT CHARACTERISTICS:

RBL488 100-60-400



INPUT CHARACTERISTICS:

RBL488 400-60-400



RBL488 400-60-400

OPERATING MODES

Constant Current: 0 to selected full scale current
Program Accuracy: 60A, 30A and 6A ranges +/-0.5
Regulation: +/- 0.1% of full scale
Resolution: 1/4000 of selected full scale
Constant Resistance: Operates in Ohms or Amps/Volt (selectable)
Program Accuracy: +/- 3% of full scale
Regulation: +/- 3% of full scale
Resolution: 1/4000 of selected full scale

High Ohms Mode

Range	6A	30A	60A
20V	0-.15 A/V	0-.75 A/V	0-1.5 A/V
200V	0-.015 A/V	0-.075 A/V	0-.15 A/V
400V	0-.0075 A/V	0-.0375 A/V	.075 A/V

Low Ohms Mode

Range	6A	30A	60A
20V	0-1.5 A/V	0-7.5 A/V	0-15 A/V
200V	0-.15 A/V	0-.75 A/V	0-1.5 A/V
400V	0-.075A/V	0-.375 A/V	0-.75 A/V

Constant Voltage: 0 to selected full scale current
Program Accuracy: 400V, 200V and 20V ranges +/-0.5
Regulation: +/- 0.15% of full scale
Resolution: 1/4000 of selected full scale
Constant Power: 0 – 400 Watts
Program Accuracy: +/- 4% of full scale
Regulation: +/- 4% of full scale
Resolution: 0.1 Watts
Short circuit: 0.05 Ohms Max.

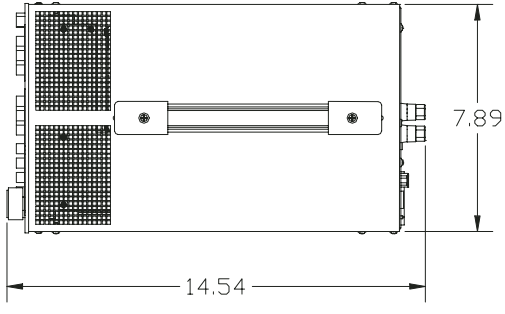
PULSE MODES

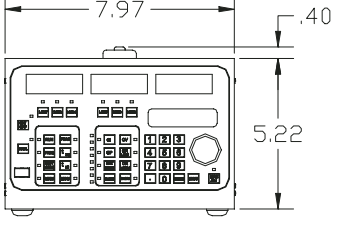
Operation: Pulse added on top of D.C. setpoint. May be used in conjunction with external programming
Frequency: .01 to 3333Hz.
Accuracy: .1%
Duty Cycle: 0 – 100%
Accuracy: .1%
Slew Rate: 10 micro seconds to .4 seconds

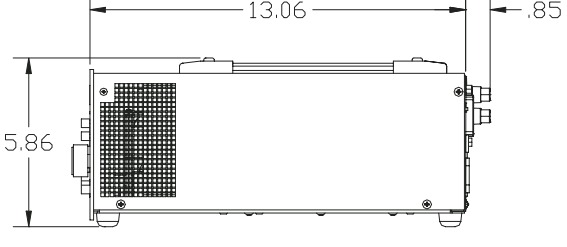
OUTPUT SIGNALS

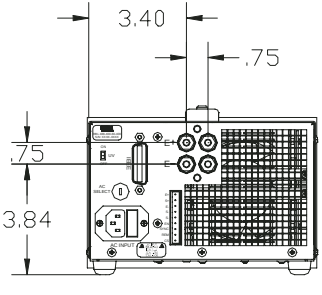
Current Sample Output
Scaling: 10 Volts = Selected full scale current
Accuracy: .5% of full scale
Sync Output:
Timing: Synchronous with pulse generator
Output: Sink with 10K ohm up to +15VDC

400W Outline









RBL488 Series 800 Watts



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
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: ±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: ±0.25%
(low): ± 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): 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 10µS
Min: 0 to full scale in 10mS

OUTPUT SIGNALS

Current Sample Output:
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:
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:
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
Undervoltage: Load inhibited at less than1 Volt, when enabled

IEEE-488 READBACKS

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): (High/Med): ±0.25% ±1 Digit
(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

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

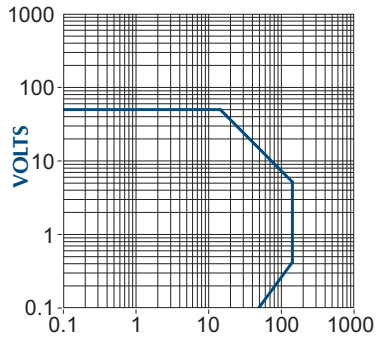
High Ohms Mode

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

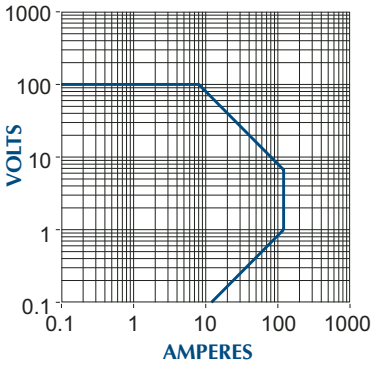
High Ohms Mode

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	0-10A/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

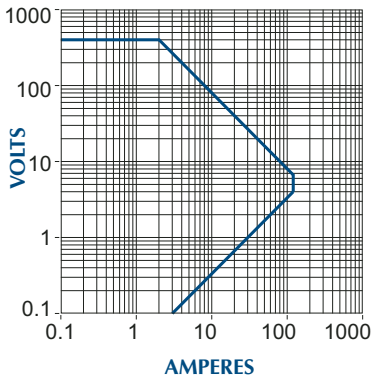
High Ohms Mode

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

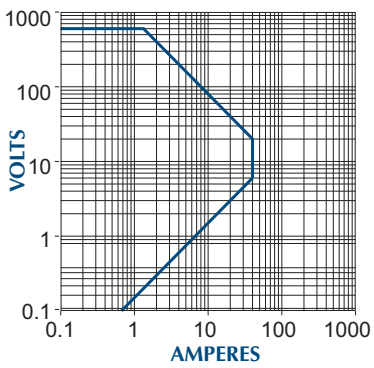
High Ohms Mode

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

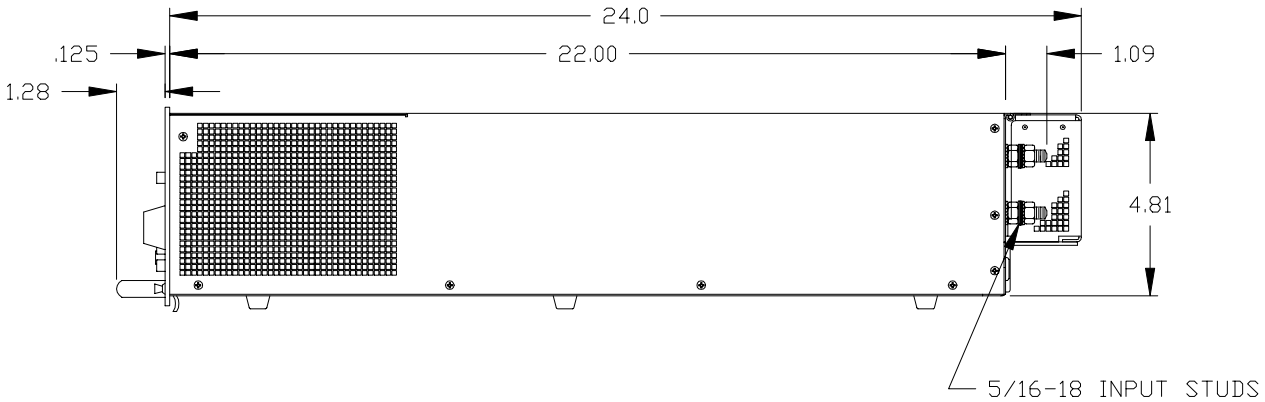
Low Ohms Mode

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

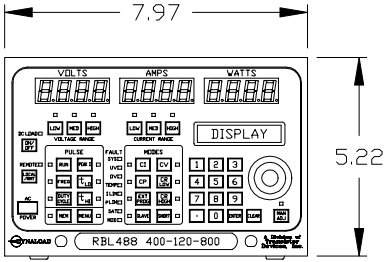
INPUT CHARACTERISTICS:

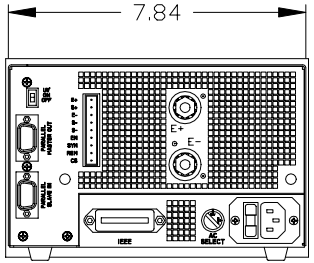


800W Outline



(SAFETY COVER NOT SHOWN)





RBL488 Series 2000 Watts



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
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: ±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: ±0.25%
(low): ± 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): 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 10µS
Min: 0 to full scale in 10mS

OUTPUT SIGNALS

Current Sample Output:
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:
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:
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
Undervoltage: Load inhibited at less than1 Volt, when enabled

IEEE-488 READBACKS

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): (High/Med): ±0.25% ±1 Digit
(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

RBL488 50-400-2000

OPERATING RANGES (FULL SCALES)

Voltage: 10 Volts, 20 Volts, 50 Volts
Current: 20 Amps, 200 Amps, 400 Amps
Power: 2000 Watts
Short Circuit: 0.001 Ohms max.

CONSTANT RESISTANCE RANGES

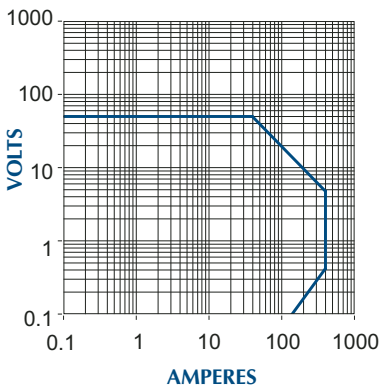
High Ohms Mode

Range	20A	200A	400A
10V	0-1A/V	0-10A/V	0-20A/V
20V	0-.5A/V	0-5A/V	0-10A/V
50V	0-.2A/V	0-2A/V	0-4A/V

Low Ohms Mode

Range:	20A	200A	400A
10V	0-10A/V	0-100A/V	0-200A/V
20V	0-5A/V	0-50A/V	0-100A/V
50V	0-2A/V	0-20A/V	0-40A/V

INPUT CHARACTERISTICS:



Safe Operating Area & Specifications

The RBL 488 2000 watt Dynaload has all of the features and capabilities of it's 4000 watt big brother in a smaller, lighter and economical 3U high package. The front panel displays and programming are identical with other RBL 488 Dynaload Models for simplified test system applications. All models include simplified master slave interconnection, full range switching and variable speed fans to assure quiet operation.

- **High Speed Adjustable Slew Rate**
- **Front Panel or Remote Control**
- **19 Rack Mount - 3U High**
- **Pulse Load Shaping**
- **Full Range Switching**
- **Quiet Variable Speed Fans**

RBL488 100-300-2000

OPERATING RANGES (FULL SCALES)

Voltage: 10 Volts, 50 Volts, 100 Volts
Current: 20 Amps, 200 Amps, 300 Amps
Power: 2000 Watts
Short Circuit: 0.005 Ohms max.

CONSTANT RESISTANCE RANGES

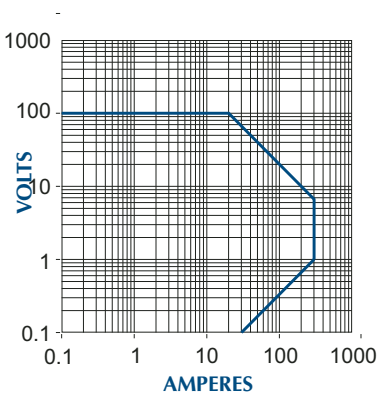
High Ohms Mode

Range	20A	200A	300A
10V	0-1 A/V	0-10 A/V	0-15 A/V
50V	0-.2 A/V	0-2 A/V	0-3 A/V
100V	0-.1 A/V	0-1 A/V	0-1.5 A/V

Low Ohms Mode

Range	20A	200A	300A
10V	0-10 A/V	0-100 A/V	0-150 A/V
50V	0-2 A/V	0-20 A/V	0-30 A/V
100V	0-A/V	0-10 A/V	0-15 A/V

INPUT CHARACTERISTICS:



RBL488 400-300-2000

OPERATING RANGES (FULL SCALES)

Voltage: 20 Volts, 200 Volts, 400 Volts
Current: 20 Amps, 200 Amps, 300 Amps
Power: 2000 Watts
Short Circuit: 0.010 Ohms max.

CONSTANT RESISTANCE RANGES

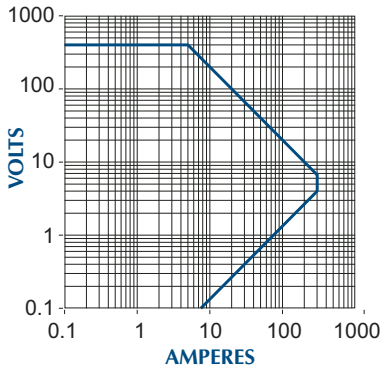
High Ohms Mode

Range	20A	200A	300A
20V	0-.5 A/V	0-5 A/V	0-7.5 A/V
200V	0-.05 A/V	0-5 A/V	0-.75 A/V
400V	0-.025 A/V	0-.25 A/V	0-.375 A/V

Low Ohms Mode

Range	20A	200A	300A
20V	0-5 A/V	0-50 A/V	0-75 A/V
200V	0-.5 A/V	0-2.5 A/V	0-7.5 A/V
400V	0-.25A/V	0-2.5 A/V	0-3.75 A/V

INPUT CHARACTERISTICS:



RBL488 600-100-2000

OPERATING RANGES (FULL SCALES)

Voltage: 20 Volts, 200 Volts, 600 Volts
Current: 2 Amps, 20 Amps, 100 Amps
Power: 2000 Watts
Short Circuit: 0.035 Ohms max.

CONSTANT RESISTANCE RANGES

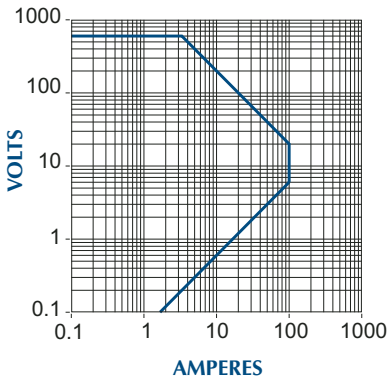
High Ohms Mode

Range	2A	20A	100A
20V	0-.05 A/V	0-.5 A/V	0-2.5 A/V
200V	0-.005 A/V	0-.05 A/V	0-.25 A/V
600V	0-.0016 A/V	0-.016 A/V	0-.083 A/V

Low Ohms Mode

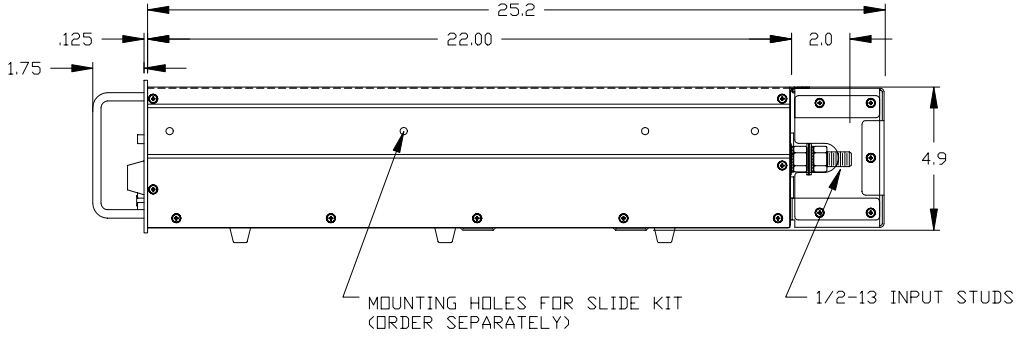
Range	2A	20A	100A
20V	0-.5 A/V	0-5 A/V	0-25 A/V
200V	0-.05 A/V	0-.5 A/V	0-2.5 A/V
600V	0-.016 A/V	0-.166 A/V	0-.833A/V

INPUT CHARACTERISTICS:

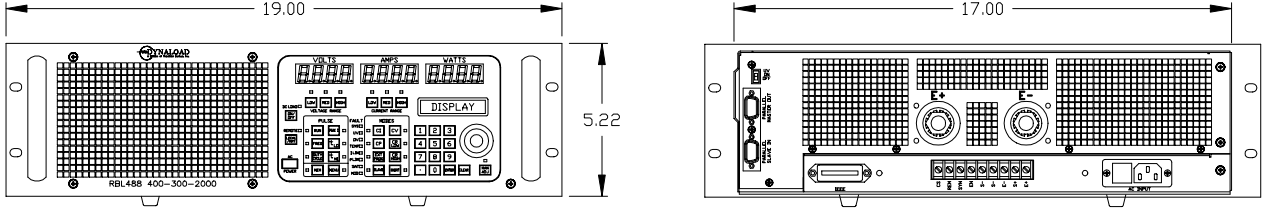


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2000W Outline



(SAFETY COVER NOT SHOWN)



RBL488 Series 4000 / 3000 Watts



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
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: ±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: ±0.25%
(low): ± 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): 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 10µS
Min: 0 to full scale in 10mS

OUTPUT SIGNALS

Current Sample Output:
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:
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:
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
Undervoltage: Load inhibited at less than1 Volt, when enabled

IEEE-488 READBACKS

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): (High/Med): ±0.25% ±1 Digit
(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

RBL488 50-1000-4000

OPERATING RANGES (FULL SCALES)

Voltage: 10 Volts, 20 Volts, 50 Volts
Current: 100 Amps, 500 Amps, 1000 Amps
Power: 4000 Watts
Short Circuit: 0.0004 Ohms max.

CONSTANT RESISTANCE RANGES

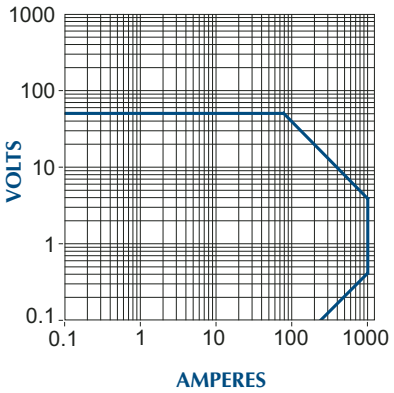
High Ohms Mode

Range	100A	500A	1000A
10V	0-5 A/V	0-25 A/V	0-50 A/V
20V	0-2.5 A/V	0-12.5 A/V	0-25 A/V
50V	0-1 A/V	0-5 A/V	0-10 A/V

Low Ohms Mode

Range	100A	500A	1000A
10V	0-50 A/V	0-250 A/V	0-500 A/V
20V	0-25 A/V	0-125 A/V	0-250 A/V
50V	0-10 A/V	0-50 A/V	0-100 A/V

INPUT CHARACTERISTICS:



Safe Operating Area & Specifications

The RBL 488 Dynaload Series features 400, 800, 2000 and 4000 watt models with wide range IEEE 488 computer programming. Individual models are designed for low voltage high current application up to 1000 amperes at fractions of a volt whereas other models are designed for midrange applications and high voltage applications up to 1000 volts. Equivalent RBL Dynaloads are available with RS 232 and Analog programming for laboratory as well as production applications. All models include easy to apply master slave parallel capabilities and all higher power models incorporate variable speed forced air cooling to assure a quiet environment. Features include:

- **High Speed Adjustable Slew Rate**
- **Front Panel or Remote Control**
- **19 inch Rack Mount - 5U high**
- **Pulse Load Shaping**
- **Full Range Switching**
- **Quiet Variable Speed Fans**

RBL488 100-600-4000

OPERATING RANGES (FULL SCALE range)

Voltage: 10 Volts, 50 Volts, 100 Volts
Current: 20 Amps, 200 Amps, 600 Amps
Power: 4000 Watts
Short Circuit: 0.003 Ohms max.

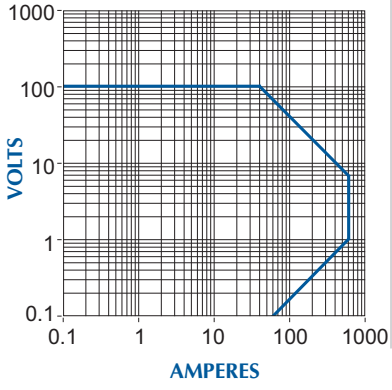
CONSTANT RESISTANCE RANGES

High Ohms Mode

Range	20A	200A	600A
10V	0-1 A/V	0-10 A/V	0-30 A/V
50V	0-.2 A/V	0-2 A/V	0-6 A/V
100V	0-1 A/V	0-1 A/V	0-3 A/V

Low Ohms Mode

Range	20A	200A	600A
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
100V	0-1 A/V	0-10 A/V	0-30 A/V



RBL488 400-600-4000

OPERATING RANGES (FULL SCALES)

Voltage: 20 Volts, 200 Volts, 400 Volts
Current: 20 Amps, 200 Amps, 600 Amps
Power: 4000 Watts
Short Circuit: 0.010 Ohms max.

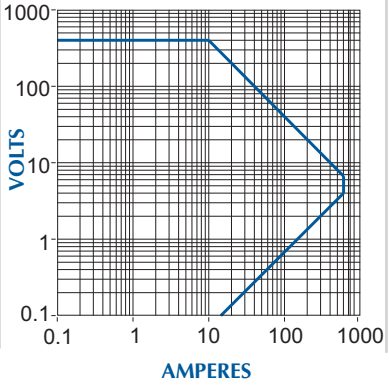
CONSTANT RESISTANCE RANGES

High Ohms Mode

Range	20A	200A	600A
20V	0-.5 A/V	0-5 A/V	0-15 A/V
200V	0-.05 A/V	0-5 A/V	0-1.5 A/V
400V	0-.025 A/V	0-.25 A/V	0-.75 A/V

Low Ohms Mode

Range	20A	200A	600A
20V	0-5 A/V	0-50 A/V	0-150 A/V
200V	0-.5 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



RBL488 600-200-4000

OPERATING RANGES (FULL SCALES)

Voltage: 20 Volts, 200 Volts, 600 Volts
Current: 2 Amps, 20 Amps, 200 Amps
Power: 4000 Watts
Short Circuit: 0.035 Ohms max.

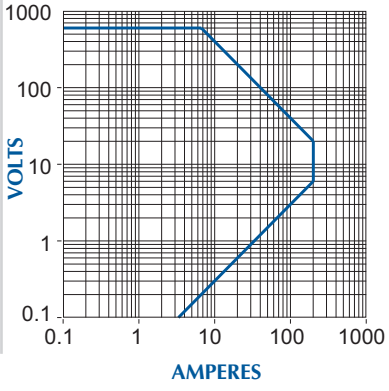
CONSTANT RESISTANCE RANGES

High Ohms Mode

Range	2A	20A	200A
20V	0-.05 A/V	0-.5 A/V	0-5A/V
200V	0-.005 A/V	0-.05 A/V	0-.5 A/V
600V	0-.0016 A/V	0-.016 A/V	0-.166 A/V

Low Ohms Mode

Range	2A	20A	200A
20V	0-.5 A/V	0-5 A/V	0-50 A/V
200V	0-.05 A/V	0-.5 A/V	0-5 A/V
600V	0-.016 A/V	0-.166 A/V	0-1.666A/V



RBL488 1000-100-3000

OPERATING RANGES (FULL SCALES)

Voltage: 100 Volts, 500 Volts, 1000 Volts
Current: 2 Amps, 20 Amps, 100 Amps
Power: 3000 Watts
Short Circuit: 0.033 Ohms max.

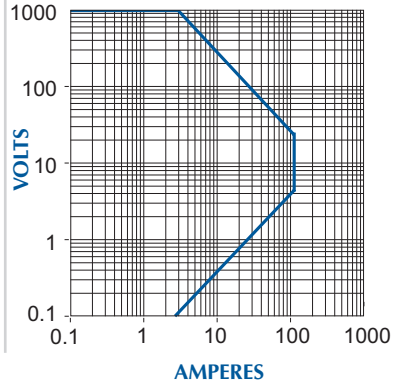
CONSTANT RESISTANCE RANGES

High Ohms Mode

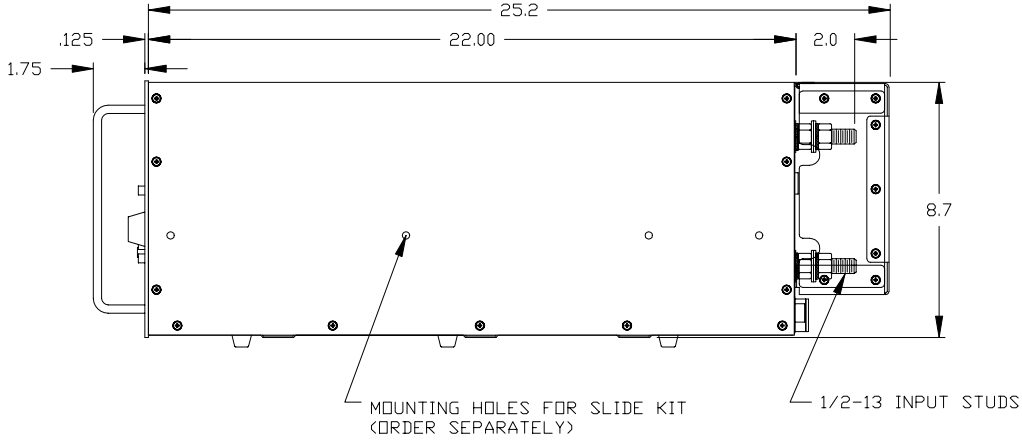
Range	2A	20A	100A
100V	0-.01 A/V	0-.10 A/V	0-.50 A/V
500V	0-.002 A/V	0-.02 A/V	0-.10 A/V
1000V	0-.001 A/V	0-.01 A/V	0-.05 A/V

Low Ohms Mode

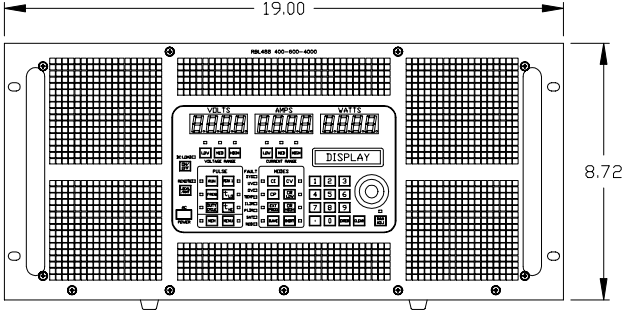
Range	2A	20A	100A
100V	0-.10 A/V	0-1.0 A/V	0-5 A/V
500V	0-.02 A/V	0-.20 A/V	0-1.0 A/V
1000V	0-.01 A/V	0-.10 A/V	0-.50 A/V

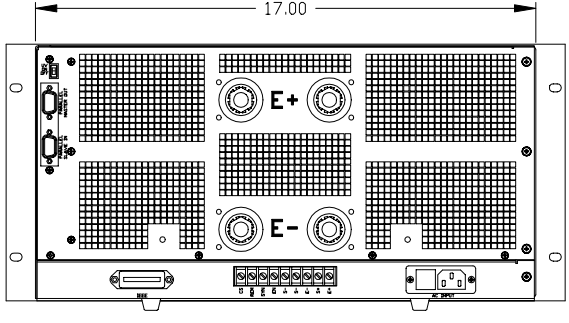


4000W Outline



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