



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 μ 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

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 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

0°C to 40°C

Ambient Temp:

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

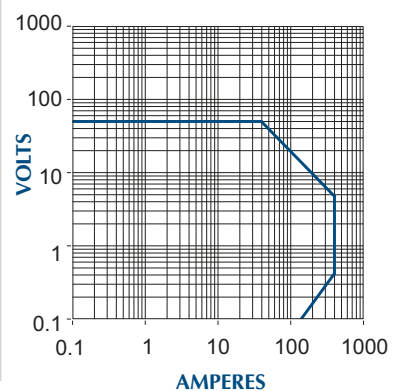
Range: **20A** **200A** **400A**

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

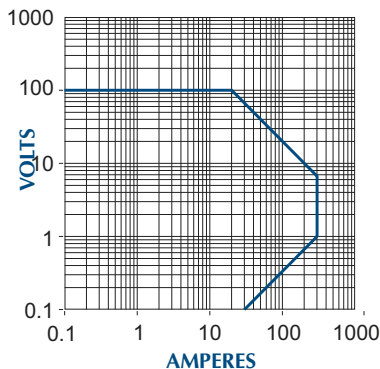
High Ohms Mode

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

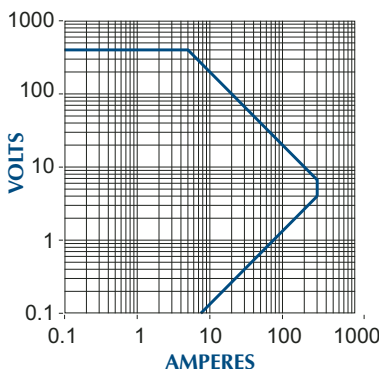
High Ohms Mode

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	0-2.5 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-.25 A/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

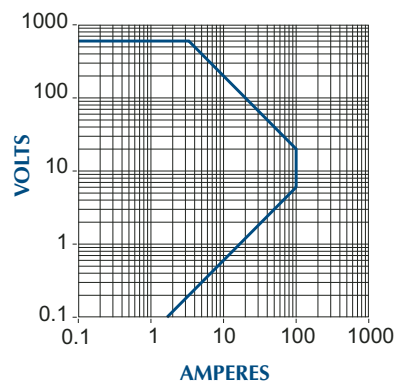
High Ohms Mode

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-.833 A/V

INPUT CHARACTERISTICS:



www.tdipower.com

2000W OUTLINE

