



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 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 READBACKS

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

- 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-.3 A/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

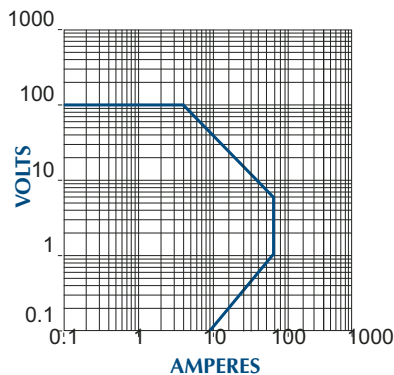
Operation: Pulse added on top of D.C. setpoint
 May be used in conjunction with external programming
Frequency: .01 to 3333Hz.
Accuracy: .1%
Duty Cycle: 0 – 100%
Accuracy: .1%
Slew Rate: 10 micro seconds to .4 seconds

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

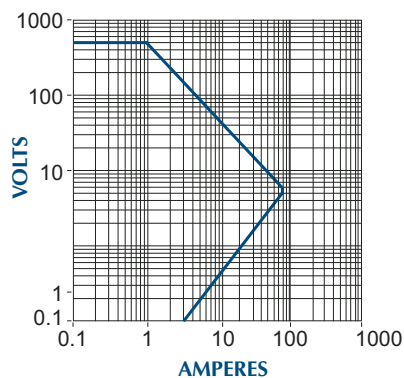
INPUT CHARACTERISTICS:

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-.075 A/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

