

PR Series

Constant Voltage/Constant Current Power Supply up to 2500W

Applications

The PR Series power supplies provide SCR pre-regulated linear output with high power, good regulation and low ripple. They find application both in the laboratory and in systems where both versatility of operation and a high degree of regulation is required. The PR Series operates both as constant voltage (CV) and constant current (CC) mode power supply depending on the load and control settings. The mode status can be observed by panel indicators.

Features

- Remote Programmable
- Remote Sensing
- Series/Parallel Operation
- Front Panel Binding Posts
- Rear Barrier Strip
- 1 mV RMS Ripple
- 10 Turn Voltage Control
- 10 Turn Current Control
- Optional IEEE-488, LAN, RS485, RS232 Control



Optional Digital Meters

3 1/2" Model

MODEL NUMBER	VOLTAGE	AMPS
PR20-15A	0-20 V	0-15 A
PR40-10A	0-40 V	0-10 A
PR60-7A	0-60 V	0-7 A
PR125-3.2A	0-125 V	0-3.2 A

5 1/4" Model

MODEL NUMBER	VOLTAGE	AMPS
PR20-25A	0-20 V	0-25 A
PR40-20A	0-40 V	0-20 A
PR60-14A	0-60 V	0-14 A
PR125-6.5A	0-125 V	0-6.5 A

7" Model

MODEL NUMBER	VOLTAGE	AMPS
PR40-30A	0-40 V	0-30 A
PR60-20A	0-60 V	0-20 A
PR125-10A	0-125 V	0-10 A
PR150-10A	0-150 V	0-10 A

8 3/4" Model*

MODEL NUMBER	VOLTAGE	AMPS
PR40-50A	0-40 V	0-50 A
PR60-30A	0-60 V	0-30 A
PR125-20A	0-125V	0-20A
PR250-10A	0-250 V	0-10 A

[* 220 VAC 50/60Hz 1Ø Standard]

SEE FOLLOWING PAGE FOR SPECIFICATION



MID EASTERN INDUSTRIES

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PR Series

Constant Voltage/Constant Current Power Supply up to 2500W

Specifications

Input: 115 VAC or 220 VAC $\pm 10\%$, 50/60 Hz Single Phase depending on the model.

Output: See specific model in table.
The output is floating and either side may be grounded.

Load Regulation:

CV Mode: 0.01% of the maximum rated voltage for a full load step.

CC Mode: 0.25% of the maximum rated current for full load voltage compliance.

Line Regulation:

CV Mode: 0.01% of maximum rated voltage for a line change within specified input voltage range.

CC Mode: 0.01% of maximum rated current for a line change within specified input voltage range.

Ripple: ≤ 1 mV RMS.

Response Time: The output voltage is within regulation limits in less than 100 microseconds for a $\frac{1}{2}$ load step.

The output voltage will remain within regulation limits for input line step within specified voltage range.

Remote Sensing: Units provided with remote sense terminals at the rear for regulation at the point of load.

Remote Programming: All units are voltage programmable at approximately 1000 Ω / Volt.

Series / Parallel Operation: Two or more units may be operated in series. Two units of the same voltage and current may be operated in parallel.

Temp. Coef.: 0.02% / $^{\circ}\text{C}$

Stability: Better than 0.05% / 8 hours at constant line, load and temperature after $\frac{1}{2}$ hour warm up.

Operating Temperature: 0°C to $+60^{\circ}\text{C}$ at any combination of line, load and temperature without the need for external cooling.

Terminations: Barrier strip terminals are provided at the rear for AC input, output, sensing, remote programming, slaving and ground.

Protection: The power supply is protected by a fuse in the input line. 8 $\frac{3}{4}$ " model is protected by a circuit breaker. The power supply is protected by means of a fully adjustable current limiting circuit.

Panel Controls: Voltmeter, Ammeter, 10 turn voltage control, 10 turn current control, pilot light, ON/OFF switch and five way binding posts.

The voltage and current control is fully adjustable from 0 to Full Range by means of 10 turn panel potentiometers.

Finish: The standard front panel finish is light blue.

Size: 8 $\frac{3}{4}$ " Model: 19" (WIDE) x 22" (DEEP)

All Other Models: 19" (WIDE) x 16 $\frac{1}{2}$ " (DEEP)

Options

Option	Description
2	3-Wire Line Cord Instead of Barrier Terminal Strip for Input
6	Over Voltage Protection
27	Chassis Slides
29	Optional 220 VAC Input
36	Voltage/Voltage Programming (0-10V = Full Rated Output Voltage)
52	Voltage/Current Programming (0-10V = Full Rated Output Current)
62	3 $\frac{1}{2}$ Digit Digital Meters
85	Voltage/Voltage Programming (Isolated Input 0-10V = Full Rated Voltage)
90	Voltage/Current Programming (Isolated Input 0-10V = Full Rated Current)
108	RS232 Control with Readback
110	RS485 Control with Readback
112	IEEE-488 Control with Readback
123	RJ45 Control with Readback

For more information, please visit us at www.mideastind.com
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