

RA Series

Constant Voltage/Current Limiting Power Supply

Applications

The RA 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. These power supplies are provided with rear barrier terminal strip for ease in output wiring. The RA Series operates as a constant voltage (CV) power supply for excellent regulation and has built in current limiting (CL) for protection of the external load.

Features

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



3½" Model

MODEL NUMBER	VOLTAGE	AMPS
RA20-15A	0-20 V	0-15 A
RA40-10A	0-40 V	0-10 A
RA60-7A	0-60 V	0-7 A
RA125-3.2A	0-125 V	0-3.2 A

5¼" Model

MODEL NUMBER	VOLTAGE	AMPS
RA20-25A	0-20 V	0-25 A
RA40-20A	0-40 V	0-20 A
RA60-14A	0-60 V	0-14 A
RA125-6.5A	0-125 V	0-6.5 A

7" Model

MODEL NUMBER	VOLTAGE	AMPS
RA40-30A	0-40 V	0-30 A
RA60-20A	0-60 V	0-20 A
RA125-10A	0-125 V	0-10 A
RA250-5A	0-250V	0-5A

8¾" Model*

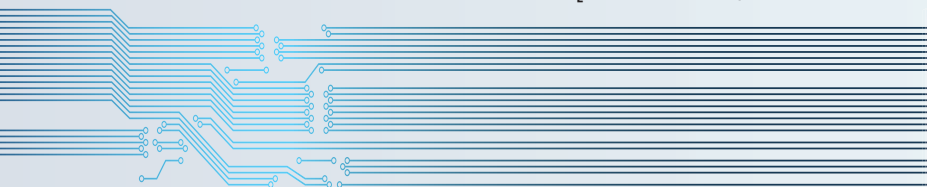
MODEL NUMBER	VOLTAGE	AMPS
RA40-50A	0-40 V	0-50 A
RA60-30A	0-60 V	0-30 A
RA125-20A	0-125 V	0-20 A
RA250-10A	0-250 V	0-10 A

10½" Model*

MODEL NUMBER	VOLTAGE	AMPS
RA25-100A	0-25 V	0-100 A
RA40-70A	0-40 V	0-70 A

[*220 VAC 50/60 Hz 1 Phase Standard]

SEE FOLLOWING PAGE FOR SPECIFICATION



MID EASTERN INDUSTRIES

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RA Series

Constant Voltage/Current Limiting Power Supply

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

Line Regulation: 0.01% of the maximum rated voltage 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 $^{\circ}\text{C}$ 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 $\frac{3}{4}$ " & 10 $\frac{1}{2}$ " models are protected by a circuit breaker. The output of the 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 and ON/OFF switch. 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 $\frac{3}{4}$ " & 10 $\frac{1}{2}$ " Models: 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)
95	Remote Output Inhibit 5 V = DC ON, 0 V = DC OFF
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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