

KV Series

High Voltage SCR Regulated Power Supply up to 1500V

Applications

The KV series of power supplies are constant voltage/constant current units with automatic crossover. Models are available with up to 3 ampere current capacity over the full voltage range. Options such as remote voltage programming, remote current programming and remote power control makes the unit a versatile equipment for laboratory and manufacturing operations.

Features

- Output 0 to 1500 VDC
- 0.5% Voltage Regulation
- 0.5% Current Regulation
- 0.5% RMS Ripple
- Standard Voltmeter and Ammeter
- Optional 3½ Digit Digital Meters
- Optional Voltage/Voltage Programmable
- Optional IEEE488, RS485, RS232 Control



Optional Digital Meters

5¼" Model

MODEL NUMBER	VOLTAGE	AMPS
KV1000-0.5	0-1000 V	0-0.5 A

7" Model

MODEL NUMBER	VOLTAGE	AMPS
KV1000-1	0-1000 V	0-1.0 A
KV1500-0.5	0-1500 V	0-0.5 A

10½" Model*

MODEL NUMBER	VOLTAGE	AMPS
KV1000-2	0-1000 V	0-2.0 A
KV1500-1	0-1500 V	0-1.0 A

14" Model*

MODEL NUMBER	VOLTAGE	AMPS
KV1000-3	0-1000 V	0-3.0 A
KV1500-1.5	0-1500 V	0-1.5 A

[*230VAC 50/60 Hz 1Ø Standard]

SEE FOLLOWING PAGE FOR SPECIFICATION



MID EASTERN INDUSTRIES

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KV Series

High Voltage SCR Regulated Power Supply up to 1500V

Specifications

Input: 115 VAC or 230 VAC $\pm 10\%$, 50/60 Hz single phase depending on the model.

Output: See specific model in table.
Adjustable 0 to rated voltage in voltage mode.
Adjustable 0 to rated current in current mode.

Regulation

Voltage:

Line: $\leq 0.5\%$ for a line change within specified input range.

Load: $\leq 0.5\%$ for a full load step.

Current:

Line: $\leq 0.5\%$ for a line change within specified input voltage range.

Load: $\leq 0.5\%$ for full voltage compliance over the operating range of $>10\%$ to $<90\%$ of maximum rated output.

Ripple: $\leq 0.5\%$ volts RMS of maximum rated output.

Response Time: The output voltage is within regulation limits in less than 500 milliseconds for a $\frac{1}{2}$ load step.

Controls:

- 10 - Turn Voltage Control
- 10 - Turn Current Control
- Voltmeter
- Ammeter
- Input Fuse - KV 1000-0.5, KV 1000-1 and KV 1500-1.5
Circuit breaker - all other models

Size: 5 $\frac{1}{4}$ " Model: 5 $\frac{1}{4}$ " (H) x 19" (W) x 16 $\frac{1}{2}$ " (D)
7" Model: 7" (H) x 19" (W) x 16 $\frac{1}{2}$ " (D)
10 $\frac{1}{2}$ " Model: 10 $\frac{1}{2}$ " (H) x 19" (W) x 16 $\frac{1}{2}$ " (D)
14" Model: 14" (H) x 19" (W) x 16 $\frac{1}{2}$ " (D)

Termination:

Input: 5 $\frac{1}{4}$ " & 7" models have 3-wire line cords.
All other models have a barrier terminal strip.

Output: Barrier terminal strip at the rear.

Operating Temperature: 0 to 50°C without derating.

Options

Option	Description
6	Over Voltage Protection
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

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