

# SV Series

## Constant Voltage Linear Power Supplies up to 1000V

### Applications

The SV Series power supplies provide SCR pre-regulated linear output with high voltage, relatively high power and good regulation. Their very low ripple and noise content makes them attractive sources for "Down Hole" power source and for both fixed and towed array systems power. They find application both in the laboratory and in systems where both versatility of operation and a high degree of regulation is required. Adjustable current limiting circuit provides output load protection.

### Features

- High Power - Small Size
- Remote Programmable
- Remote Sensing
- 0.01% Regulation
- ≤ 3 mV RMS Ripple
- 10 - Turn Voltage Control
- 10 - Turn Current Control
- Optional IEEE-488, LAN, RS485, RS232 Control



#### 3½" Model

MODEL NUMBER	VOLTAGE	AMPS
SV600-0.5A	0-600 V	0-0.5 A
SV750-0.3A	0-750 V	0-0.3 A

#### 7" Model

MODEL NUMBER	VOLTAGE	AMPS
SV600-2A	0-600 V	0-2 A

#### 10½" Model\*

MODEL NUMBER	VOLTAGE	AMPS
SV600-5A	0-600 V	0-5 A
SV1000-2A	0-1000 V	0-2 A

#### 14" Model\*

MODEL NUMBER	VOLTAGE	AMPS
SV600-10A	0-600 V	0-10 A

#### 5¼" Model

MODEL NUMBER	VOLTAGE	AMPS
SV600-1A	0-600 V	0-1 A
SV1000-0.5A	0-1000 V	0-0.5 A

#### 8¾" Model\*

MODEL NUMBER	VOLTAGE	AMPS
SV600-3A	0-600 V	0-3 A

#### 12¼" Model\*

MODEL NUMBER	VOLTAGE	AMPS
SV600-7A	0-600 V	0-7 A

[\*8¾" Model: 220 VAC 50/60Hz 1Ø Standard]  
 [\*10½" Model and above: 230 VAC 50/60Hz 3Ø Standard]

**SEE FOLLOWING PAGE FOR SPECIFICATION**



**MID EASTERN INDUSTRIES**

Leader in linear technology since 1959

100 School Street, Bergenfield, NJ 07621

Phone: (201) 385-0500 Fax: (201) 385-0702

Website: [www.mideastind.com](http://www.mideastind.com)

# SV Series

## Constant Voltage Linear Power Supplies up to 1000 V

### Specifications

**Input:** 3½" to 7" : 115 VAC ± 10% 50/60 Hz 1Ø Standard  
8¾" : 220 VAC ± 10% 50/60 Hz 1Ø Standard  
10½" to 14" : 230 VAC ± 10% 50/60 Hz 3Ø Standard

**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:** ≤3 mV RMS

**Response Time:** The output voltage is within regulation limits in less than 100 microseconds for a ½ 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 1000Ω/Volt standard.

**Series/Parallel Operation:** Two units may be operated in series. Two units with the same voltage and current may be operated in parallel.

**Temp. Coef.:** 0.01%/°C

**Stability:** Better than 0.05%/8 hours at constant line, load and temperature after ½ hour warm up.

**Operating Temperature:** 0°C to +60°C at any combination of line, load and temperature without the need for external cooling.

**Terminations:** AC line cord is provided for 3½" and 5¼" models. All other models have barrier terminal strip for AC input. Barrier terminal strips are provided at the rear for output, sensing, remote programming, slaving and ground.

**Protection:** The power supply is protected by a fuse in the input line. 8¾" models and above are 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 and ON/OFF switch. The voltage and current control is fully adjustable from 0 to Full Range by means of 10 turn panel potentiometers.

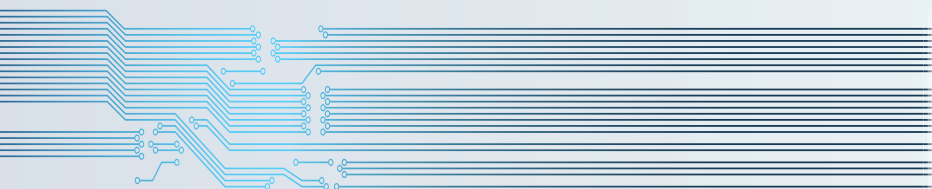
**Finish:** The standard front panel finish is light blue.

**Size:** 3½" to 7" : 19"(WIDE) x 16½" (DEEP)  
All other models: 19"(WIDE) x 22" (DEEP)

### Options

Option	Description
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	3½ 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](http://www.mideastind.com)  
or email us at [meisales@theallpower.com](mailto:meisales@theallpower.com)



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