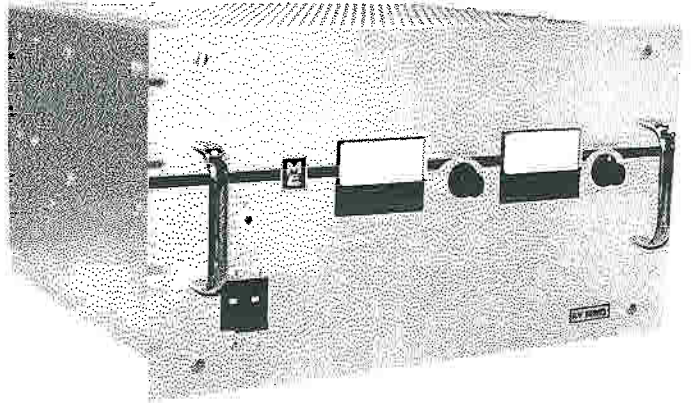


# Constant Voltage Linear Power Supplies

# HV

## ■ Features

- High Power - Small Size
- Adjustable Current Limit
- Remotely Programmable
- Less than 1mV rms ripple
- .01% Regulation
- Meters
- 10 Turn Voltage Control
- IEEE488 Option



## ■ Models

3-1/2" Panel Heights

5-1/4" Panel Heights

Model Number	Volts	Amps.	Model Number	Volts	Amps.
HV350-1	0-350	0-1	HV350-2	0-350	0-2

7" Model

12-1/4" Model\*

HV350-3	0-350	0-3	HV350-15	0-350	0-15
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8-3/4" Model

14" Model\*

HV350-5	0-350	0-5	HV350-20	0-350	0-20
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10-1/2" Model\*

HV350-10	0-350	0-10			
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## ■ Application

The HV Series of Power Supplies are all silicon, high voltage, relatively high power, and tightly regulated. Their very low ripple content makes them attractive sources for "Down Hole" and 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 solid state current limiting provides load protection.

\* Indicates 230 VAC 60 Hz 3 phase input is standard for these models.



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## ■ Specifications

**Input:** 105-125 Volts AC 50 to 60 Hz single phase. 198-242 Volts AC 50 to 60 Hz single phase for 8-3/4 panel height units & up.

**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:** 0.005% of the maximum rated voltage for a line change from 105 to 125 or 125 to 105 VAC.

**Ripple:** Less than 1 millivolts RMS.

**Response Time:** The output voltage is within regulation limits in less than 100 microseconds for a 1/2 load step.

The output voltage is within regulation limits in less than 100 microseconds for a line step of 10%.

**Remote Sensing:** To allow for point of load regulation all units are provided with remote sense terminals at the rear.

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

**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.:** 0.01%/ degree C.

**Stability:** Better than 0.05%/8 hours at constant line, load and temperature, after 1/2 hour warm up.

**Operating Temperature:** 0C to +60C at any combination of line, load and temperature including continuous operation at 125 VAC and full load 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. 8-3/4" & up, models have a circuit breaker.

The output of the supply is protected by means of the fully adjustable solid state current limiting feature.

**Panel Controls:** Voltmeter, ammeter, 10 turn voltage control, current limit control, pilot light and on/off switch.

The voltage level is fully adjustable by means of a 10 turn panel voltage adjust potentiometer

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

**Size:** See specific models for panel heights. Width is 19" rack panel mountings. Depth is 16-1/2" behind the panel, except 8-3/4" & 10-1/2" models which are 22" deep

## ■ Options

**06** Addition of an adjustable over-voltage crow bar.

**27** Chassis Slides

**36** Voltage/voltage programming (0-10v = Full rated output.)

**52** Voltage programming of the output current level (0-10V = 0 to full rated current.)

**62** 3-1/2 Digit digital meters.

**85** Voltage/voltage programming (Isolated input).

**90** Voltage programming of the output current level. (Isolated input).

**108** RS232 Control with read back.

**109** IEEE-488.2 Control with read back.

**110** RS-485 Control with read back.



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