



HIGH VOLTAGE POWER SUPPLY MODEL P-500-A

SINGLE CHANNEL BIPOLAR OUTPUT HIGH VOLTAGE HIGH CURRENT POWER SUPPLY SERIES

Description

The P-xxx series high voltage power supplies are a single output high voltage with excellent specifications. The HV power supplies family are dedicated to a wide range of users and applications. The key features of these instruments are: flexible and customized approach, accuracy in design and wide input and output range.

Advantage	Applications
High performance	General power supply
High stability output	Piezo power supply
High voltage output	Electrostatic device
High current	
Low noise	
Short circuits protect	
Bipolar output	

Important features	Physical dimension
<p>Specifications:</p> <ul style="list-style-type: none">• Output voltage range 0 to ± 500 Vcc• Ripple < 2 mVpp typ.• Short circuits protection• Analog display for voltage & current• Power supply 110/220 Vac 50 – 60 Hz• Stability 0.01 %	<p>Specifications:</p> <ul style="list-style-type: none">• Width 84 TE• Height 3 U• Depth 360 mm• Weight 10 Kg <p>Environment:</p> <ul style="list-style-type: none">• Operating Temperature – 10 °C to 50 °C• Humidity 0 to 95 %



Description

The model P-500-A HV power supply is a single channel high voltage, providing high precision output voltages together with very low ripple and noise, even under full load.

The high voltage outputs protected against overload and short circuits.

An output voltage or current exceeding the set limit is signalled by the red front panel error LED.

Additionally, by software, through the RS-232 interface, it is possible to set output voltage and ramp output parameters and to read the output voltage, the output current and the status.

Options

CAN-Bus interface;

RS-232 interface, with driving software tools.

Electrical characteristics	
Output voltage	0 to ± 500 V
Output current	0 to 50 mA
Stability (no load/load)	$< 2 \times 10^{-4} \Delta V_{out}$
Ripple	< 2 mVp-p typ. 5 mVp-p max.
Output voltage control	by 10-turn potentiometer auxiliary BNC 0 to ± 10 V (optional) by serial interface RS-232
Voltage indicator	Analog meter, -500- 0 – 500V f.s.
Current indicator	Analog meter, -50 - 0 - 50 mA f.s.
Overload indicator	by red LED
Slew rate	5000 V/mS
Output connector	High voltage BNC
Type of load	Resistive , capacitive
Min. resistive load	10 K Ω (at max. output voltage)
Max. capacitive load	5 nF, according to slew rate
Insulation chassis to terminal	> 50 M Ω at 200 Vdc
Power supply	210 – 230 Vac 50 – 60Hz
Case	Width 84 TE, Heigth 3 U, Depth 360 mm, Weight 9 Kg
Operating temperature	0 to 50°C
Storage temperature	-20 to +60°C

Reference manual included.

Warranty: 2 years.

Specifications subject to change without notice