

## DESCRIPTION

The LHV Power Series-B High Voltage Power Supply is intended for use with SideWindow and/or Front Window Photo-Multipliers. These high quality, compact devices can be mounted directly to PMT's such as the 931A and IP28.

The Series-B are small, low cost solid state power supplies capable of providing 0 to -1250V DC. The output voltage varies directly with the amount of input voltage applied.

These devices have an integral voltage-divider network of approximately 5 mega ohms, no by-pass capacitors, and an integral socket which fits all 28 mm (1-1/8") diameter, 9-stage photomultipliers having small shell submagnal bases.

The LHV Power Series-B devices feature a very low DC leakage socket for exceptional performance.

Models that incorporate a built-in pre-amplifier are available. These units are specified by a 'PA' designation following the Model Number.

The LHV Power Series-B high voltage converters are fully encapsulated in UL approved GE RTV627, 100% tested before shipment, and protected by warranty against defects in material or workmanship.

## SPECIFICATION

DC Output Voltage (V out)	0 to -1250 VDC	Dimensions	approx
DC Input Voltage (V in)	0 to 9 VDC	1.3" x 1.9" x 1.25"	
Input Current at Max V out	<100mA	Volume	approx
Peak to Peak Ripple at Max V out		3.1 cu. in.	
and Full Load	<0.05%	Weight	approx
Total resistance of Integral		2.3 oz.	
Voltage Divider Network	5.1 Mohm	Packaging	Solid
Output DC Offset	<3 nA	encapsulation	
		Termination	3 leads,

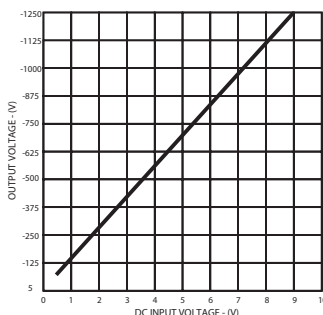
## AVAILABLE MODELS

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE
B1250	0 to 9 VDC	0 to -1250 VDC <sup>(1)</sup>
B1250PA <sup>(2)</sup>	0 to 9 VDC	0 to -1250 VDC <sup>(1)</sup>

(1) Output proportional to Input; see graph

(2) The PA model incorporates a built-in signal pre-amplifier.

## TYPICAL PERFORMANCE @ 25°C



## FEATURES

- High voltage power supply
- Compact, solid state design
- Low cost
- Operating at up to -1250 volts
- Output proportional to input
- Built-in dynode divider
- Very low output DC offset (<3nA)
- Optional built-in pre-amplifier
- CE Marked

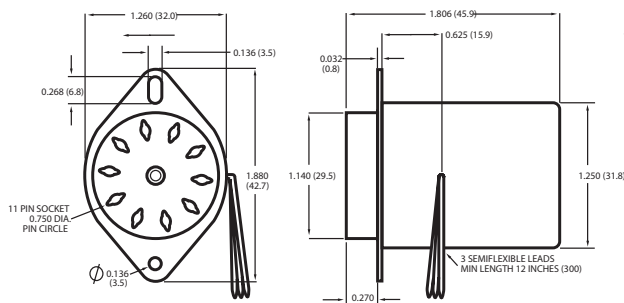
## APPLICATIONS

- Photomultipliers (for all purposes)
- Precision electrostatic lenses and beam position controls
- Spectroscopy
- Image intensifiers
- Microchannel plates
- Precision use in general

1. The ground (black) lead is common to the shield of the anode output coaxial lead.
2. The centre conductor connects directly to the tube anode. There is no internal load.

## LEAD CONNECTIONS

Positive DC Input Voltage (Vin) .....Red  
Ground .....Black  
Anode Output Signal<sup>2</sup> .....Coax



Drawing dimensions are in inches (mm)