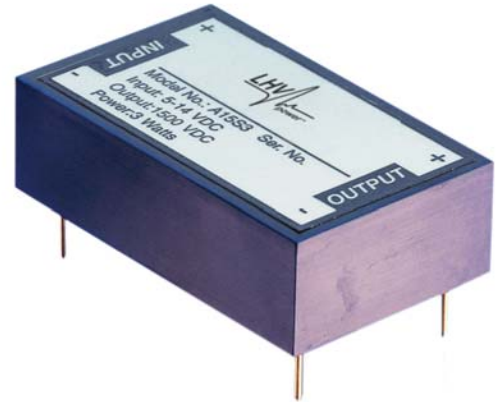


DESCRIPTION

The Series-A HVPS is intended to satisfy the need for a miniature, low cost, isolated voltage source. The entire family operates from an input voltage of 5V to 14V, with the output proportional to the input voltage. The package is designed to be operated from a 12 volt source having either plus or minus polarity. Isolation of the output from the input allows the user to have an output voltage of either polarity as well as being able to ground the output voltage at a remote point. The unit is protected against overvoltage and reversed input polarities. The unit is protected against shorts or opens across its output terminals.

Low noise models that reduce ripple by 50% are available. These units feature a noise reduction RC filter that is polarity dependant, and are specified by a 'P' (low noise positive output) or 'N' (low noise negative output) instead of 'S' in the Model Number.

The HiTek PowerSeries-A 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

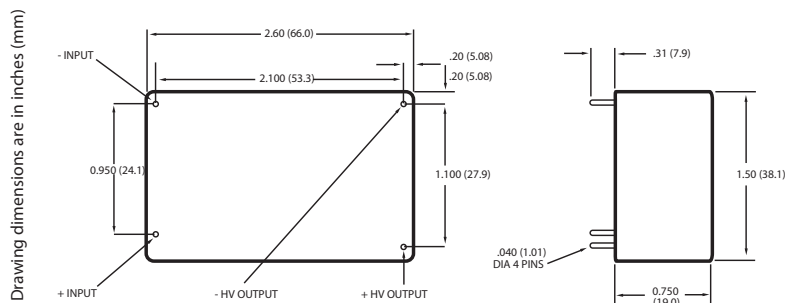
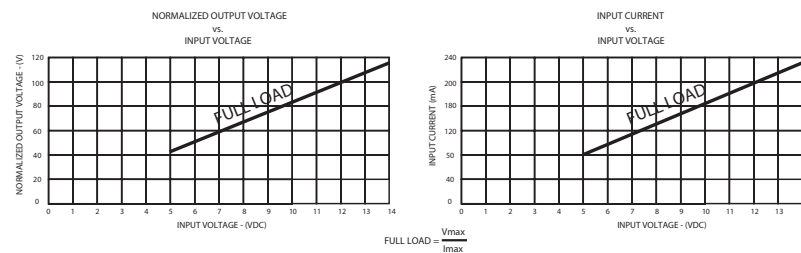
Input Voltage	5 to 14 VDC	Dimensions	1.5" x 2.5" x 0.75"
Input Current	Refer to graph below	Voltage	2.8 cu. in.
Regulation	5% (Half load to Full load)	Weight	4 oz.
Output Ripple	<0.5% (see table for low noise models)	Packaging	Solid encapsulation
Output Power	3W	Terminations	4 PC Pins (.043 Diameter hole)
Insulation	2000Vp-p Input/Output	Temperature	0°C to +85°C (Case)

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE (@ 12 Vin/1.5Wout)	RIPPLE (p-p)
A10S3	5-14 VDC	1000 VDC	250mV ⁽¹⁾
A15S3	5-14 VDC	1500 VDC	400mV ⁽¹⁾
A20S3	5-14 VDC	2000 VDC	500mV ⁽¹⁾
A30S3	5-14 VDC	3000 VDC	1V ⁽²⁾
A40S3	5-14 VDC	4000 VDC	1.5V ⁽²⁾

Temp Coeff	.025% /°C
Vibration	20G per Mil-Std-810, Method 514, Curve E, Figure 514-3
Shock	40G per Mil-Std-810, Method 516, Proc IV

- (1) Output proportional to Input; see graph below
- (2) Low Noise models reduce Ripple by 50%. When ordering substitute the 'S' with 'P' for Low Noise Positive Output, or with 'N' for Low Noise Negative Output.

TYPICAL PERFORMANCE @ 25°C



☑ These component power supplies meet the requirements of EC Directive 73/23/EEC (LVD)

FEATURES

- High input/output isolation
- Small, flat, lightweight
- Low cost
- Input/output floating
- Output proportional to input
- Operates on only 12 VDC
- Mounts on printed circuit board
- Short circuit and reverse polarity protected
- Off-the-shelf delivery
- ☑ Marked

APPLICATIONS

- Ink jet printing
- Electrostatic precipitation
- Geiger-Muller tubes
- Electron beam deflection and focussing
- General purpose