

# SURGE RESISTANT INDUSTRIAL POWER SUPPLY

## HIW 150

- Withstands surges of up to 4kV
- Hi-POT tested for isolation levels of 5kVdc
- Input: 85Vac to 264Vac or 82Vdc to 286Vdc
- Convection cooled - no fan
- Single output
- Fully protected
- Stock or short delivery



The HIW150 is rugged, single output power supply designed to withstand 4kV surges as specified in EN61000-4-5 in every combination of input and output without varistor protection. All creepage distances were increased to a minimum of 10mm on this version. This unit is based on the same topology as Absopulse's field-proven MIW150 series. It is well suited to demanding applications characterized by frequent spikes.

### SPECIFICATIONS

**Input Voltage**

85Vac to 264Vac; 47-63Hz  
82Vdc to 286Vdc

**Input Protection**

Internal safety fuse  
Inrush current limiting

**Isolation**

5000Vdc for every combination of input, alarm, output and chassis

**Surge Protection**

EN61000-4-5 level 4 surge  
(1.2/50µsec) in every combination between input, output, GND and alarm

**EMI**

EN 55022 Class B

**Output Voltages**

12V/10A, 24V/5A, 48V/2.5A or  
125V/1A are standard.

Consult factory for other output voltages.

**Line/Load Regulation**

±2% maximum combined from no load to full load including built-in redundancy diode

**Output Ripple/Noise**

Better than 1% peak to peak or 0.3% of the output voltage (20MHZ BW)

**Output Overvoltage Protection**

Double regulator loop

**Overload Protection**

Current limiting with short circuit protection (hiccup mode)

**Efficiency**

Min 80% at full load

**Hold Up Time**

Minimum 35ms at 115Vac or 150Vdc

**Operating Temperature**

0 to +50°C with good convection cooling, with 2.5% / °C de-rating up to +70°C. Low temperature option available

**Temperature Drift**

0.03% per °C over operating temperature range

**MTBF**

100,000 at 45°C

**Indicators**

DC output LED (green)

**Alarm**

Dry contact alarm (Form C) monitors output before redundancy diode

**Dimensions**

DIN-rail mountable enclosure:  
4" x 2.0" x 6.6" (113x51x168mm)

**Weight**

1.64lb (0.75kg)

**Connections**

Phoenix terminal block

Enhancements to these general specifications and customizing can be accommodated upon request.

Designed to meet common approval requirements. Specifications subject to change.

Warranty: Twelve months subject to application within good engineering practice

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility**

**ABSOPULSE ELECTRONICS LTD**

110 Walgreen Road  
Ottawa, Ontario K0A 1L0

Tel: (613) 836-3511 Fax: (613) 836-7488 E-mail: [absopulse@absopulse.com](mailto:absopulse@absopulse.com)

Visit us at [www.absopulse.com](http://www.absopulse.com)