

2 – 3kW, Rugged, AC/DC Industrial Power Supply with High Output Voltage HVC 2K-3U4 Series

- Rugged industrial quality
- Single regulated and adjustable output
- Fan cooling (two internal fans)
- Full electronic protection
- Field-proven design
- N+1 redundancy available



The HVC 2K Series rugged, industrial quality AC/DC power supply uses field proven topology to generate up to 3000W, depending on input output configuration requirements. It is a mature design with a track record in numerous applications. The unit has four internal modules (two FIB 1000, two KHO 1502). Two built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. The unit has full electronic protection. Low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. Additional ruggedizing and conformal coating are available for operation in extreme environments. An optional built-in redundancy diode allows for parallel and N+1 operation. The HVC 2K is manufactured at our plant under strict quality control. Customized versions are also available.

SPECIFICATIONS

<p>Input Voltage 230Vac ±15% 47 - 63Hz 115Vac and other inputs on request. DC input and PFC input versions are also available</p>	<p>Output Voltage/Current 85Vdc/23A, 125Vdc/16A, 136Vdc/15A, 250Vdc/8A, 300Vdc/6.6A or 400V/5A Consult factory for other voltages or higher power levels</p>	<p>Efficiency Output voltage dependent Typically 85% at full load</p>	<p>Indicators None</p>
<p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p>	<p>Redundancy Diode Available as option</p>	<p>Operating Temperature Range 0°C to 50°C for full specification without derating Extended temperature ranges available</p>	<p>Control Input None</p>
<p>Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p>	<p>Line/Load Regulation +/- 1% combined from zero load to full load</p>	<p>Temperature Drift 0.03% per °C over operating temperature range</p>	<p>Alarm Output None on standard version Optional Form C alarm available</p>
<p>Standards Designed to meet EN 60950 and corresponding UL and CSA standards</p>	<p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p>	<p>Cooling By two built-in fans Fans draw air into the unit.</p>	<p>Package/Dimensions (W x H x L) 3U4: 244 x 132 x 407 mm (9.6" x 5.2" x 16") including terminal blocks and fans, excluding flanges Mounting holes are clear</p>
<p>EMI EN55022 Class A as a minimum</p>	<p>Output Ripple / Noise Less than 1% peak to peak or 0.2%rms of the output voltage (20MHZ BW)</p>	<p>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating as option</p>	<p>Weight 8 kg (18 lb)</p>
<p>Switching Frequency 55 KHz +/-3KHz</p>	<p>Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p>	<p>Shock/Vibration IEC 61373 Cat 1 A&B</p>	<p>Connections Input/output: terminal block</p>
<p>Hold Up Time Min.10ms at full load for 5% drop of the output voltage</p>	<p>Output Over-voltage Protection Second regulator loop, completely stable and independent of main regulator loop</p>	<p>MTBF 160,000 hours @ 45 °C (Fans excluded) Demonstrated MTBF is significantly higher</p>	<p>RoHS Compliance Fully compliant</p>
			<p>Warranty Two years subject to application within good engineering practice</p>

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

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.



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