

800W, Rugged Industrial Quality AC/DC Fan Cooled Power Supply HBC 800 Series

- Rugged industrial quality
- Single regulated and adjustable output
- Cooling by built-in fans
- Full electronic protection
- Field-proven design
- N+1 redundancy available



This rugged, industrial quality AC/DC power supply uses field-proven technology to generate the required output power. It is a mature design with a track record in numerous applications. Cooling is by built-in fans, with additional conduction via the baseplate. Full electronic protection, low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. This unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 115/230Vac +/- 15% 47 - 63Hz Voltage selection by internal jumper</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>Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p> <p>Standards EN60950 and corresponding UL and CSA standards</p> <p>EMI EN55022 Class A with margins</p> <p>Switching Frequency 55 KHz +/-3KHz</p> <p>Hold Up Time Min. 5ms at any input for 5% drop in output voltage</p>	<p>Output Voltage/Current 12Vdc/65A, 24Vdc/33A, 48Vdc/17A are standard. Consult factory for other voltages</p> <p>Redundancy Diode Optional</p> <p>Line/Load Regulation +/- 1% combined from zero load to full load</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple / Noise Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)</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>Output Overvoltage Protection Double regulator loop completely stable and independent of main loop</p>	<p>Efficiency Output voltage dependent. Typically 80% at full load</p> <p>Operating Temperature Range 0 to+50 °C for full specification without derating. Extended temperature range available on request</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Forced air by built-in fans and additional cooling via base plate</p> <p>Environmental Protection Basic ruggedizing Optional conformal coating and heavy ruggedizing</p> <p>Humidity 5 – 95% non-condensing</p> <p>MTBF 150,000 hours @ 45 °C Demonstrated MTBF is significantly higher</p>	<p>Indicators None</p> <p>Control Input None</p> <p>Alarm Output None Available as option</p> <p>Package / Dimensions (WxHxD) U5512: 127 x 127 x 316 mm (5" x 5" x 12.5") including fans, mounting flanges and terminals</p> <p>Weight 5.2 kg (11.5 lb)</p> <p>Connections Terminal blocks</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
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European Stocking Distributor
Phone: +41 44 730 33 53

Email: sales@hvps-condatas.com / www.hvps-condatas.com
Rietbachstrasse 7, 8952 Schlieren (ZH), Switzerland