

500W, Rugged, AC/DC Industrial Power Supply HBC 319 Series

- Rugged industrial quality
- Single regulated and adjustable output
- Convection/conduction cooling
- Full electronic protection
- Field-proven design
- N+1 redundancy available



The HBC 319 Series rugged AC/DC industrial power supply utilizes a field proven topology to deliver 500W output power. It is a mature design with a track record in numerous applications. Cooling is by conduction via baseplate to a heatsinking surface and by natural convection. The unit features full electronic protection and low output noise. Low component count, large design headroom, 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 unit is manufactured at our plant under strict quality control. Customized versions and fan-cooled versions with increased output power are also available.

SPECIFICATIONS

<p>Input Voltage 115/230VAC +/- 15% 47 - 63Hz Voltage selection by internal jumper</p> <p>Input Protection Inrush current limiting Varistors 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 Designed to meet EN60950 and corresponding UL and CSA standards</p> <p>EMI EN 55022 Class B</p> <p>Switching Frequency 55KHz +/- 3KHz</p> <p>Hold Up Time Minimum 10ms at full load for 5% drop of output voltage at nominal input</p>	<p>Output Voltages 24VDC/20A, 48VDC/10A or 125V/4A standard Consult factory for other voltages</p> <p>Redundancy Diode None Available as option</p> <p>Line/Load Regulation ± 1% combined from no 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 0 to 50°C at full power without de-rating. Extended temperature range available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and natural convection</p> <p>Environmental Protection Basic ruggedizing Optional conformal coating</p> <p>Humidity 5 – 95% non-condensing</p> <p>MTBF 150,000 at 45°C Demonstrated MTBF is significantly higher</p>	<p>Indicators None on standard version</p> <p>Control Input None</p> <p>Alarm Output None on standard version Available as option</p> <p>Package/Dimensions (WxHxD) F4: 130 x 62 x 353 mm (5.1 x 2.43" x 13.9) including mounting flanges and terminals</p> <p>Weight 2.2 kg (4.9 lb)</p> <p>Connections 12 pole barrier type terminal block with 3/8" spacing</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
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Enhancements to these general specifications and customizing can be accommodated upon request. Specifications are subject to change.

*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 BAPT-approved Facility*



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