

# 1000W POWER SUPPLY IN 5" X 5" X 11.5" PACKAGE

## HBC1000 SERIES

- Compact size
- Adjustable output
- Up to 1000W of output power
- Full electronic protection
- Telecom quality
- Field-proven design topology



The HBC1000 Series is a highly compact AC/DC converter which uses established design techniques to ensure high reliability. Standard outputs are 24V/41A and 48V/20A. Suitable for a wide range of applications, the HBC1000 features full electronic protection, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature. Options include extended operating temperature (-40 to +65°C) and N+1 redundancy. The power factor corrected version, the PFC1000, is also available.

### SPECIFICATIONS

<b>Input Voltage</b> 115/230VAC $\pm$ 15% switch selectable 47 - 63Hz	<b>Output Voltages</b> 24V/41A; 28V/35A; 48V/20A; 54V/18A are standard Consult factory for other voltages	<b>Overload Protection</b> Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow	<b>Operating Temperature</b> 0°C to +50°C
<b>Input Protection</b> Thermal fuse Inrush current limiting	<b>Efficiency</b> Min 80% at full load	<b>RFI Suppression</b> Meets FCC 20780 Class A and EN 55022 Class A conducted emissions	<b>Temperature Drift</b> 0.03% per °C over operating temperature range
<b>Input Isolation/Safety</b> 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis  Compliance to IEC950, CSA 22-2-950 and UL 1950 Please consult factory for approval status for the requested input/output configuration	<b>Line/Load Regulation</b> +/-1% combined  Tighter regulated versions available	<b>Output Ripple/Noise</b> Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW) Audio band noise: max. 32dBnC	<b>Dimensions</b> 5" x 5" x 11.5" enclosed case Weight: 11 lb. (5kg).
	<b>Output Overvoltage Protection</b> Double regulator loop	<b>Hold Up Time</b> Minimum 10ms at full load for 5% drop of output voltage	<b>Connections</b> Screw-type terminal block
			<b>Output Fail Alarm</b> CE opto-coupler output (normal operation: low) Relay contacts optional

Warranty: Twelve months subject to application within good engineering practice  
Enhancements to these general specifications can be accommodated upon request  
Designed to meet common approval requirements. Specifications 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 BABT-approved Facility

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ELECTRONICS LTD.

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