

500W, SINGLE-OUTPUT, DC VOLTAGE POWER SUPPLY HBC419 SERIES - PLUG-IN MODULE

- Compact size - 4U x 304mm x 16HP
- Single regulated and adjustable output
- 500W of output power with convection cooling
- Full electronic protection
- Telecom quality
- Field-proven design
- Also available in a stand-alone version
- N+1 redundancy available



The HBC419 Series of AC/DC converters uses a field-proven high frequency conversion technology to generate 500W of output power with convection cooling. Standard output voltages are 24V or 48V; other voltages are available. This design features low component count and high efficiency. The use of high quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. The HBC419 module plugs into a pre-wired 19" shelf which can hold up to 5 modules or a 23" shelf pre-wired for 6 modules. The rear of the shelf has copper rails with studs for the input and output connections.

SPECIFICATIONS

Input Voltage

115/230VAC +/- 15%
47 - 63Hz

Input Protection

Thermal Fuse
Inrush current limiting

Input Isolation

2250VDC input to chassis
4300VDC input to output,
8mm spacing
500VDC output to chassis

Full compliance to IEC950, CSA
22-2-950 and UL 1950
Please contact factory for approval
status for the requested
input/output configuration

Output Voltages/Current per Module

24V/20A and 48V/10A
are standard

Consult factory for other voltages

Line/Load & Cross Regulation

+/-1% combined

Output Over-voltage Protection

Double regulator loop

Overload Protection

Current limiting with short circuit
protection
Self-resetting thermostat for
thermal protection

Efficiency

Min 85% at full load

RFI Suppression

Meets FCC 20780 Class A
and EN 55022 Class A
conducted emissions as a
minimum

Output Ripple/Noise

Better than 1% of output voltage
peak to peak or 0.2% RMS of the
output voltage (20HZ BW)

Hold Up Time

Minimum 10ms at full load for 5%
drop of output voltage

Operating Temperature

0 to +50°C with convection
cooling. Extended temperature
range available

Temperature Drift

0.03% per °C over operating
temperature range

Dimensions

Plug-in module:
4U x 304mm x 16HP
Shelf: 4U x 19" or 23" x 15"
deep

Connections:

H15 DIN connector for the
modules
Copper studs for the shelf
For other connectors please
consult factory

Warranty

Twelve months subject to
application within good
engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request
Designed to meet all 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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