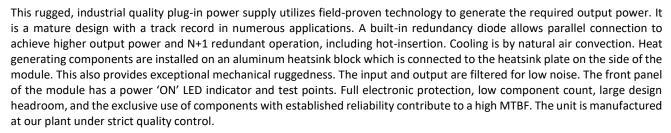
500W AC-DC Plug-in Power Supply Module with Convection Cooling Rugged Industrial Quality HBC 419-EH Series

- Rugged field-proven design
- Industrial quality
- Full electronic protection
- 4U x 16HP x 304mm plug-in module
- Front panel test points & LED status
- Convection cooled (no fans)
- Hot swappable, N+1 redundancy



SPECIFICATIONS

Input Voltage

115/230Vac ±15% 47 - 63Hz switch selectable Auto-ranging available Please consult factory for other voltages and ranges

Input Protection

Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit

Input Isolation

2250Vdc input to chassis 4300Vdc input to output, 8mm spacing 500Vdc output to chassis Isolation voltages correspond to input/output combination

Standards

Designed to meet EN 62368-1 and related standards.

EN 55032 Class A as a minimum

Switching Frequency

55kHz +3kHz

Output Voltages/Currents

24Vdc/20A or 48Vdc/10A 500W per module with convection cooling Consult factory for other voltages

Redundancy Diode

Installed internally Hot insertion allowed

Line/Load Regulation

Typically ±1% combined from no load to full load including redundancy diode

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

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

Output Overload Protection

Rectangular current limiting with short circuit protection (constant current). Thermal shutdown with automatic recovery in case of reduced airflow

Output Overvoltage Protection

Second regulator loop

Efficiency

85% typical depending on the input/output configuration.

Operating Temperature

0 to +50°C for full specification Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Natural air convection (Vertical airflow)

Environmental Protection

Basic ruggedizing. Conformal coating

MTBF

180,000 hours at 45°C per Demonstrated MTBF is significantly higher

Indicators

On front panel of module: Green "Output ON" LED connected before redundancy diode Test Points on front-panel

Control Input

Adjustment potentiometer on front-panel

Alarm Output

Module fail alarm by optocoupler CE-fail open

Mechanical Dimensions (W x H x D) 4U x 16HP x 304mm

Weight

2.2 kg (4.9 lb.)

Connections:

H15 DIN connector on

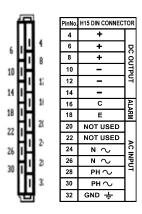
RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Pin-out drawing, H15 connector



ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change.

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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