

150W, Triple Output, Plug-in (Eurocard) Industrial Quality Power Supply with PFC-input EPF 67-EH Series

- Electronic power factor correction (PFC)
- Rugged, industrial quality
- Triple regulated and adjustable output
- Convection cooling
- 3U x 14HP x 220mm plug-in module
- Full electronic protection
- Field-proven design
- Also available in stand-alone package
- N+1 redundancy available



This rugged, industrial quality, triple output, plug-in type AC/DC power supply has power factor corrected input and uses field-proven technology to generate 150W output power. It is a mature design with a track record in numerous applications. All three outputs are individually regulated and current limited. A built-in redundancy diode is available as an option for parallel connection or N+1 redundant operation, including hot-insertion. Cooling is by natural air convection. Heat generating components are installed on an aluminum heatsink block, which is connected to the heatsink plate on the side of the module. The unit has input and output filtering in compliance with EN 55022 EMI standards. Full electronic protection, low component count, large design headroom, and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

Input Voltage

Universal 95 ... 264VAC
47 – 63Hz
Consult factory for other inputs

Power Factor is a min. 0.97 at full load for the entire input range.
Meets EN61000-3-2

Input Protection

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

Isolation

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

Standards

Designed to meet EN 60950 and corresponding UL and CSA standards

EMI

EN55022 Class A as a minimum

Hold Up Time

Min. 10ms at any input for 5% drop of the output voltage

Switching Frequency

50-150KHz PFC section
(dependent on the load)
55 KHz +/-3KHz for the DC/DC output section

Output Voltage/Current

5V/15A, 12-15V/3A and
12-15V/3A
150W per module
Consult factory for other voltages

Redundancy Diode

None
Installed internally as option

Line/Load Regulation

+/- 1% combined from 10% 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

Less than 1% peak to peak or 0.2%rms of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection (no hiccup)
Thermal shutdown in case of insufficient cooling (self resetting)

Output Over-voltage Protection

Second regulator loop and transzorbs

Efficiency

80% typical, depending on the input/output configuration

Operating Temperature Range

0°C to +50°C for full specification without derating
Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Natural air convection

Environmental Protection

Basic ruggedizing
Full ruggedizing and conformal coating as option

Shock/Vibration

IEC61371 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

140,000 hours @ 45 °C
Demonstrated MTBF is significantly higher

Indicators

Output ON LED
Optional Test Points on front-panel

Control Input

Optional adjustment potentiometer on front-panel of plug-in module

Alarm Output

Optional optocoupler alarm on the module

Mechanical (H x W x D)

3U x 14HP x 220mm
Eurocard plug-in module

Weight

Approx. 1 kg (2.2 lb.)

Connections:

H15 DIN connector

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request. 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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