

Rugged, Industrial Quality AC/DC Plug-in Power Supply Module with PFC-input delivers up to 1500W PFC 619F-EH Series

- 6U x 16HP x 304mm plug in module
- Rugged field-proven design
- Electronic power factor correction (PFC)
- Full electronic protection
- Fan cooled
- Redundancy diode included



This rugged, industrial quality, AC/DC plug-in power supply module uses field-proven technology to generate up to 1500W output power. It is a mature design with a track record in numerous applications. The unit has a built-in redundancy diode for parallel connection or N+1 redundant operation, including hot-insertion. The built-in fans provide sufficient airflow for operation without de-rating to the specified temperature. Heat generating components are installed on an aluminum heat-sink block, which is connected to the heat-sink plate on the side of the module. It has input and output filtering in compliance with EN 55022 EMI standards. Full electronic protection, low component count, large design headrooms, 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
Power Factor is better than 0.97 at full load for the entire input range.
Meets EN61000-3-2
Consult factory for other inputs

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 related standards

EMI

EN55022 Class A with margins

Hold Up Time

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

Switching Frequency

Input stage: 100KHz
Output stage: 55 KHz +/-3KHz

Output Voltage/Current

24VDC/40A or 48VDC/30A are standard.
Output is floating; either terminal can be grounded
Consult factory for other outputs

Redundancy Diode

Installed internally

Line/Load Regulation

+/- 1% combined from zero load to full load

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

Double regulator loop.

Efficiency

Output voltage dependent .
Typically 80% at full load

Operating Temperature Range

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

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Forced air by high quality internal fans

Environmental Protection

Basic ruggedizing
Heavy ruggedizing and conformal coating as option

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

120,000 hours @ 45 °C (fans excluded)
Demonstrated MTBF is significantly higher.

Indicators

Green "Output ON" LED on the Front-panel of each plug-in module

Alarm Output

Module Fail Alarm
Opto-coupler on the plug-in module (C-E opens on alarm)

Package / Dimensions

6U x 16HP x 304mm

Connections

Two H15 Connectors

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

H15 DIN CONNECTOR PIN-OUT

Pin	Function
4	+ OUPUT
6	+ OUPUT
8	+ OUPUT
10	OUTPUT RTN
12	OUTPUT RTN
14	OUTPUT RTN
16	ALARM C
18	ALARM E
20	GND
22	NOT USED
24	AC INPUT (N)
26	AC INPUT (N)
28	AC INPUT (L)
30	AC INPUT (L)
32	CHASSIS GND

Enhancements to these general specifications 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 BABT-approved Facility



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