

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

- Electronic power factor correction (PFC)
- Rugged industrial quality
- 6U x 16HP x 304 mm plug in module
- Full electronic protection
- Cooling by high quality built-in fans
- Field-proven design topology
- Redundancy diode included

**PFC 619F-EH plug-in module (1500W)  
6U x 16HP x 304mm + plus connector**



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 derating 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. The input and output are filtered for low noise. 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  
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 60950-1 and corresponding UL and CSA standards

#### EMI

EN55022 Class A with margins

#### Hold Up Time

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

#### Switching Frequency

100kHz  $\pm$ 5kHz input stage  
55kHz  $\pm$ 3kHz output stage

#### 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

$\pm$ 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 two 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)  
Form C on the shelf

#### Package / Dimensions

6U x 16HP x 304mm

#### Weight

3.5 kg; 7.8 lb

#### Connections

Two H15 Connectors

#### RoHS Compliance

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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