

PFE1000F SERIES

AC / DC Single Output: 1000 Watts



Features

- 1000W Full brick AC/DC Power Module in one package.
- Harmonic input correction: EN61000-3-2
- Universal input 85~264vac with PFC
- Fully regulated outputs:12v, 28v, 48v
- Wide baseplate temperature -40°C to +100°C
- OVP, OCP and Over temperature protection
- Safety UL60950, EN60950
- Fully isolated input-output
- External components required for operation, refer to instruction manual.
- PCB mounting
- Suitable for battery charging applications.

Specification

Input Voltage	85 ~ 264 VAC
Input Frequency	47 ~ 63Hz
Input Current	13.6 / 6.5A (100/200Vac)
Power Factor	Typically 0.95
Inrush Current	20 / 40A (100/200Vac)
Output Voltage	12v, 28v, 48v Adjustment: $\pm 20\%$ of nominal
Output Power	1000 watts
Efficiency	Model dependant 80~86%
Ripple & Noise	Typically 1% of Vout
Line Regulation	12v: 48mV 28v: 56mV 48v: 96mV
Load Regulation	12v: 48mV 28v: 56mV 48v: 96mV
Over current Protection	Constant current , set @105~140% of with auto recovery
Over voltage Protection	Set @ 125~145% of Vout, Inverter Shutdown Recycle input.
Over temp protection	Yes (refer to manual)
Remote ON / OFF	YES
Parallel Operation	YES
Remote Sense	Yes
Operating Temp.	12V: -40°C to +85°C Baseplate temperature 28/48V: -40°C to +100°C Baseplate temperature
Humidity	20-95% RH
Cooling	Conduction cooled
Safety	UL60950-1, EN60950-1, CSA60950-1.
Isolation Voltage	Input-Output: 3kvac, Input-Baseplate: 2.5kvac Output-Baseplate: 1.5kvac
Shock & Vibration	196m/S ² . Amplitude 0.825mm constant (max 49m/s ²) X, Y,Z 1 hour.
Size & Weight	1160 x 100 x 13.4mm 500g

Description

The innovative **PFE1000F** series is a "Full Brick" AC input power supply module , capable of operating up to +100°C base plate temperature.

It offers a **single device** containing power factor correction, regulation and primary secondary isolation, offering up to 50% space savings over previous power module solutions. These power modules meet the needs of many industrial, datacom and telecom applications particularly where high operating temperatures are required and space is at a premium.

The PFE1000F is an extension of the PFE300, PFE500 and PFE700 family and are available in 12, 28 and 48 volt nominal outputs and can be adjusted over a $\pm 20\%$ range.

The PFE series modules, allows design engineers to design and manufacture their end product, containing a PFE power module, as an integral part of the product.especially for applications requiring a sealed assembly.

- **Manual & Full Application notes on PFE1000F series, visit our website**

Model	Output		Power W
	V	A	
PFE1000F-12	12V	60A	720W
PFE1000F-28	28V	36A	1008W
PFE1000F-48	48V	21A	1008W

