

# 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

<b>Input Voltage</b>	85 ~ 264 VAC
<b>Input Frequency</b>	47 ~ 63Hz
<b>Input Current</b>	13.6 / 6.5A ( 100/200Vac )
<b>Power Factor</b>	Typically 0.95
<b>Inrush Current</b>	20 / 40A ( 100/200Vac )
<b>Output Voltage</b>	12v, 28v, 48v Adjustment: ±20% of nominal
<b>Output Power</b>	1000 watts
<b>Efficiency</b>	Model dependant 80~86%
<b>Ripple &amp; Noise</b>	Typically 1% of Vout
<b>Line Regulation</b>	12v: 48mV 28v: 56mV 48v: 96mV
<b>Load Regulation</b>	12v: 48mV 28v: 56mV 48v: 96mV
<b>Over current Protection</b>	Constant current , set @105~140% of with auto recovery
<b>Over voltage Protection</b>	Set @ 125~145% of Vout, Inverter Shutdown Recycle input.
<b>Over temp protection</b>	Yes ( refer to manual )
<b>Remote ON / OFF</b>	YES
<b>Parallel Operation</b>	YES
<b>Remote Sense</b>	Yes
<b>Operating Temp.</b>	12V: -40°C to +85°C Baseplate temperature 28/48V: -40°C to +100°C Baseplate temperature
<b>Humidity</b>	20-95% RH
<b>Cooling</b>	Conduction cooled
<b>Safety</b>	UL60950-1, EN60950-1, CSA60950-1.
<b>Isolation Voltage</b>	Input-Output: 3kvac, Input-Baseplate: 2.5kvac Output-Baseplate: 1.5kvac
<b>Shock &amp; Vibration</b>	196m/S <sup>2</sup> . Amplitude 0.825mm constant ( max 49m/s <sup>2</sup> ) X, Y,Z 1 hour.
<b>Size &amp; Weight</b>	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 ±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	
<b>PFE1000F-12</b>	12V	60A	720W
<b>PFE1000F-28</b>	28V	36A	1008W
<b>PFE1000F-48</b>	48V	21A	1008W

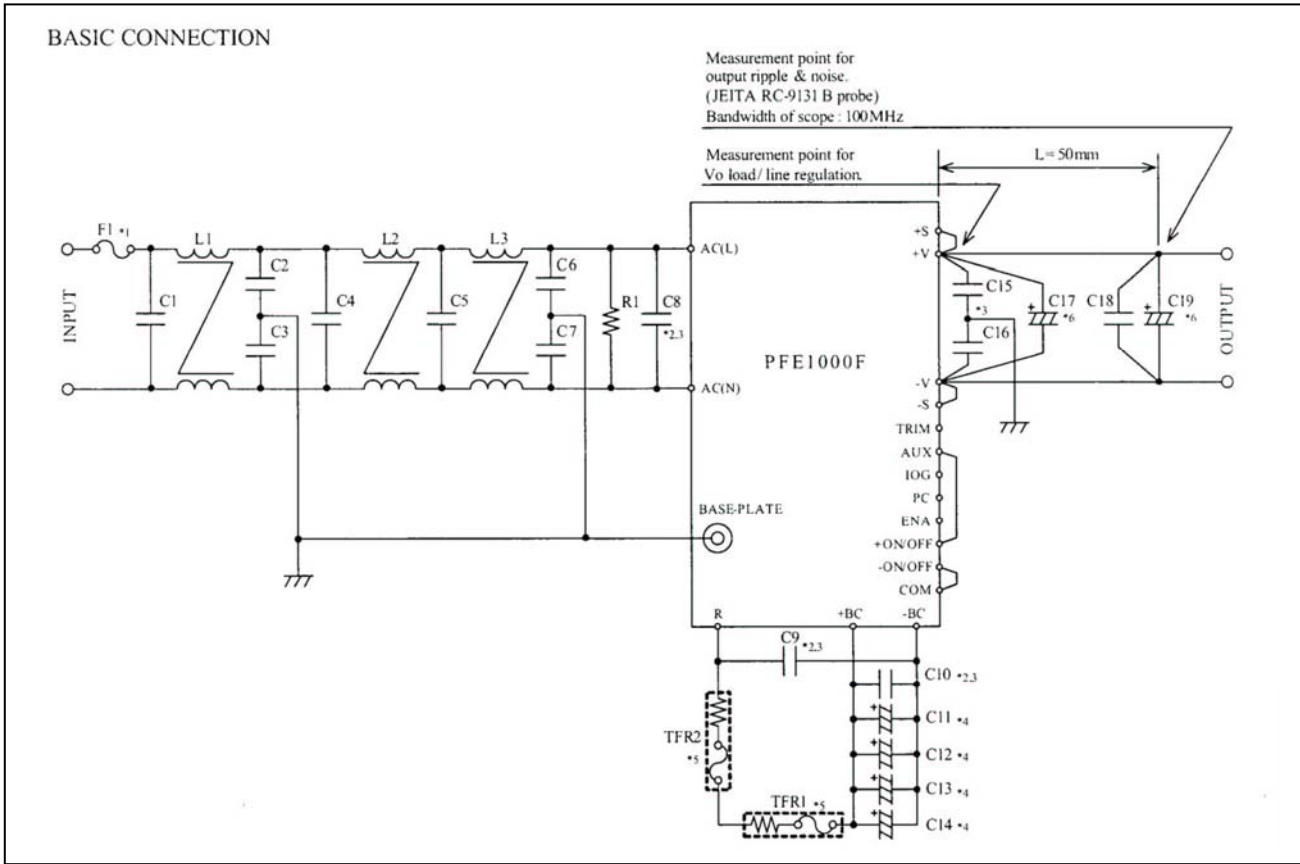
**Blank** = M3 tapped mounting insertes ( 4 )

**/T** to model for 3.3mm non-threaded insertes

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## Basic Connection Diagram



## PFE1000F Outline

