

Embedded Power for Business-Critical Continuity

AIF - PFC Series

1600 Watts

Total Power: 1600 Watts
/120 - 370VDC
(Configurable)

Input Voltage: 85 - 264VAC

of Outputs: Single



Rev. 05.22.07
AIF-PFC Series
1 of 2

Special Features

- Unity power factor
- High efficiency - up to 95%
- Universal input voltage and frequency range
- Up to 1600W output power
- Positive and Negative enable function
- Parallelable with accurate current sharing
- <10% harmonic distortion conforming to IEC1000-3-2 Compliance
- 100°C baseplate operating temperature
- DC Input option
- Power fail warning signal
- Enable output to control DC-DC Converter
- EEPROM data storage via I²C Interface
- External inrush current limited protection
- Power Density up to 290W/in³

Electrical Specifications

Input

Input range	85 - 264 Vac / 120 - 370 Vdc (configurable)
Input surge	290 Vac / 1s
Input Frequency	50/60 Hz
Efficiency	95% @ 230Vac, 1600 W (typical)
Total Harmonic Distortion	Less than 10%
Power Factor	0.99 typical (Po ± 500 W); 0.97 typical (Po ± 1000 W)

Output

Output Voltage	380V typical (Io = 4.2A / Vi > 180 Vac); 393V typical (Io = 0A) Note: Vin rms must always be lower than Vout
Current Share Accuracy	10% max
Oversvoltage Protection	430 max
Power Limit for AC input	Pin = 85Vac, Pmax = 1000W; Pin = 230Vac, Pmax = 1600W
for DC input	Pin = 370Vdc, Pmax = 1600W

Control

Power Fail Warning	Direct drive output to opto-isolator
Power Fail Warning Adjust	195 to 355Vdc adjustable
LD Enable	Direct drive output to opto-isolator
PFC Enable	TTL compatible
Voltage Adjust	76% to 100% Vo
DC Input Enable	
Clock Input (external sync)	6Vp-p typical @ 1MHz ± 5%
Clock Output (int. clock)	6Vp-p typical @ 1MHz ± 5%
Temperature Monitor Output	10mV/°C
Current Monitor Output	0 to 1mA (1mA = 4.2A output)
I ² C Interface	

Notes

Nominal values apply with sense pins disconnected and other control pin unconnected.

Safety

UL 60950 Recognized
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EN60950 Licensed



