

AIQ00ZPFC-01NL

75 Watts

Data Sheet

Total Power: 75 Watts
Input Voltage: 100 - 122 Vac
of Outputs: Single

SPECIAL FEATURES

- Unity power factor
- High efficiency - up to 90%
- Civil/Aviation supply frequency range 360 - 800 Hz
- Up to 75 W output power
- Negative enable function
- RTCA-DO 160 compliant
- 100 °C baseplate operating temperature
- Enable output to control DC-DC converter
- Internal active switch bypassing external inrush current components
- RoHS compliant

SAFETY

- UL cUL 60950 Recognized
- TUV EN60950 Licensed



Electrical Specifications

Input	
Input range	100 - 122 Vac
Input surge	180 Vac / 1s
Input frequency	360 - 800 Hz
Efficiency ²	90% @ 115 Vac, 75 W (Typical)
Total harmonic	RTCA-DO 160 compliant
Power factor	Up to 800 Hz @ > 25 W 0.99 typical (115 Vac; 50-360 Hz; 75 W) 0.98 typical (115 Vac; 800 Hz; 75 W)
Control	
LD enable	Direct drive output to opto-isolator
PFC enable	Neg TTL compatible
Voltage adjust	-0% + 30% max.
Output	
Output voltage	393 Vdc typical
Overvoltage protection	430 Vdc
Output power limit	90 W at Vin = 95 Vac
Isolation	
I/O isolation	None
Input to baseplate	2700 Vdc
Output to baseplate	2700 Vdc
Leakage current	< 1 mA at 800 Hz input frequency

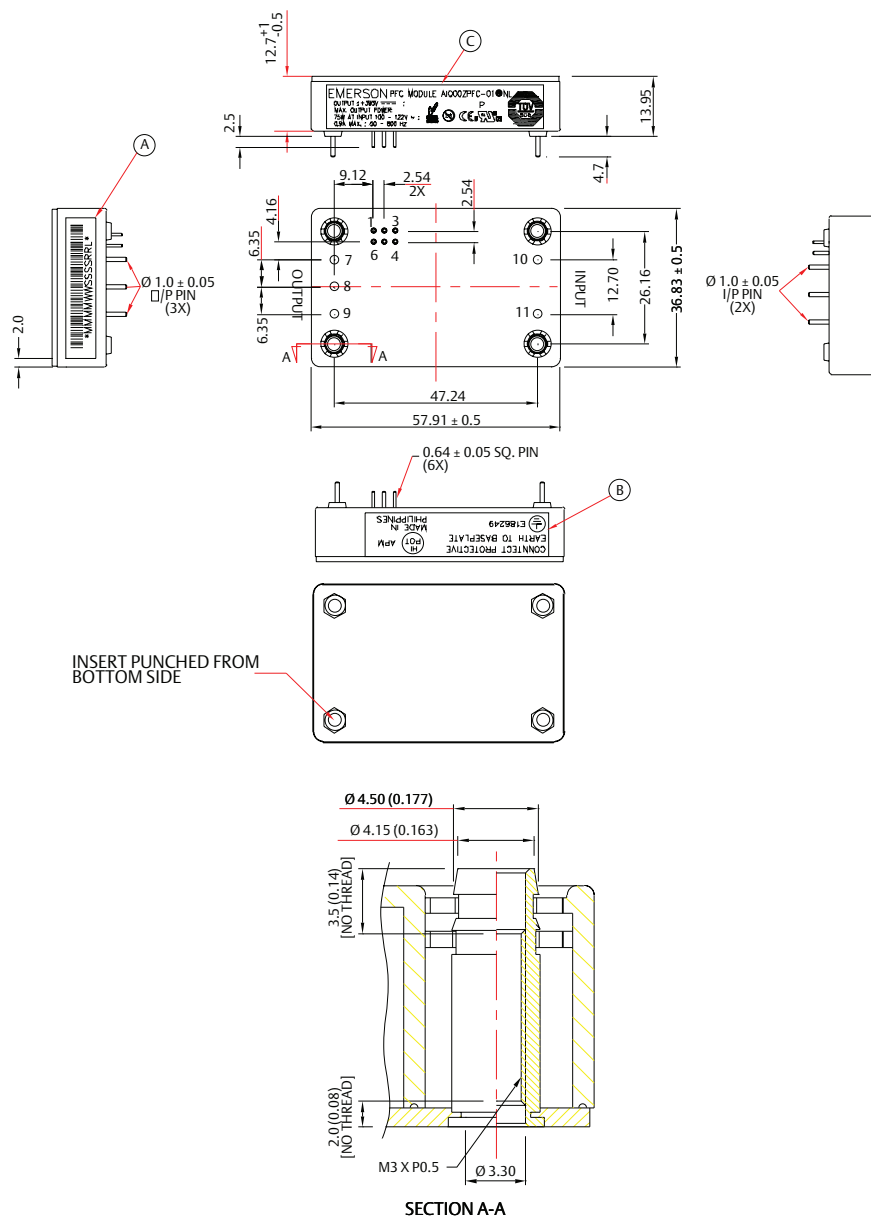
Environmental Specifications

Operating ambient temperature range	-20 °C to +100 °C (baseplate temperature)
Storage temperature	-40 °C to 120 °C
Overtemperature protection	120 °C max.
Calculated MTBF	> 1 million hours

Ordering Information

Model number	Description	Notes
AIQ00ZPFC-01NL	75 W Low Profile PFC Module	Negative Enabled

Mechanical Drawings



Pin Assignments

Input (AC)	Output (DC)	Control Pins
10. L1	7.0 Positive	1. PF Enable
11. L2	8.0 Negative	2. Voltage Adj.
	9.0 Inrush	3. Temp Mon.
		4. LD Enable
		5. PFW
		6. GND

Notes:

1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 1 year
3. Label and logo appearance may vary from what is shown on mechanical drawings..

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
+44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
+852 2176 3333

ARTESYN[™]
EMBEDDED TECHNOLOGIES

www.artesyn.com

Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. All other names and logos referred to are trade names, trademarks, or registered trademarks of their respective owners. © 2016 Artesyn Embedded Technologies, Inc. All rights reserved. For full legal terms and conditions, please visit www.artesyn.com/legal.

For more information: www.artesyn.com/power
For support: productsupport.ep@artesyn.com