



**THE DATASHEET OF
AIQ00ZPFC-01NL**



ARTESYN AIQ00ZPFC-01NL

75 Watts



The AIQ00ZPFC series quarter-brick power factor correction module accepts a 100–122 Vac input and presents a unity power factor. It accommodates AC supply frequencies in the range 360 to 800 Hz. Rated at 75 watts, the module offers a power conversion efficiency of up to 90% and provides a typical output voltage of 393 Vdc.

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

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..



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PRECISION | POWER | PERFORMANCE

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