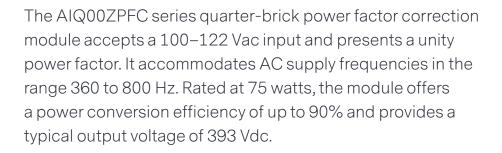


ARTESYN AIQ00ZPFC-01NL

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

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AIQ00ZPFC-01NL

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 |

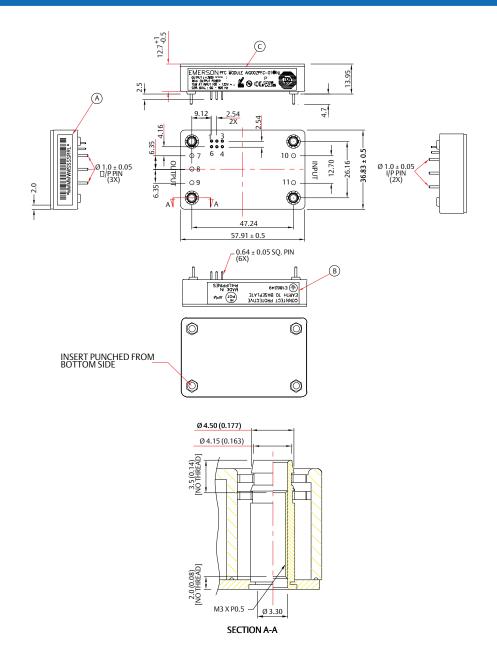


AIQ00ZPFC-01NL

ORDERING INFORMATION

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

MECHANICAL DRAWINGS



AIQ00ZPFC-01NL

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..







Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

PRECISION | POWER | PERFORMANCE

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