

AIT00ZPFC-01NL

150 Watts

Total Power: 150 Watts
Input Voltage: 100 - 122 Vac
of Outputs: Single



Special Features

- Unity power factor
- High efficiency - up to 92%
- Civil / Aviation supply frequency range (50 / 60 / 360 - 800 Hz)
- Up to 150W output power
- Negative enable function
- RTCA-DO 160 Compliant
- IEC1000-3-2 compliance at 50 Hz to 800 Hz input
- 100°C baseplate operating temperature
- DC Input option
- Enable output to control DC-DC Converter
- Internal active switch bypassing external inrush current components

Safety

UL cUL 60950 Recognized
TUV EN60950 Licensed

Electrical Specifications

Input

| | |
|-----------------|---|
| Input range | 100 - 122 Vac |
| Input surge | 170 Vac / 500ms |
| Input frequency | 50 Hz/60 Hz / 360 - 800 Hz |
| Efficiency | 91% @ 115 Vac, 400 Hz 150 W (typical) |
| Total harmonic | RTCA-DO 160 Compliant |
| Power factor | 0.99 typical (115 Vac; 50 Hz to 360 Hz; 150 W) 0.98 typical (11r Vac; 800 Hz; 150 W) |

Control

| | |
|----------------|--------------------------------------|
| LD enable | Direct drive output to opto-isolator |
| PFC enable | Neg TTL compatible |
| Voltage adjust | 78% to 100% Vo |

Output

| | |
|--------------------------|---|
| Output voltage | 393 V typical |
| Overvoltage protection | 430 V max |
| Power limit for AC input | Vin = 115 Vac, Pmax = 180 W Vin = 95 Vac, Pmax = 120 W |

Isolation

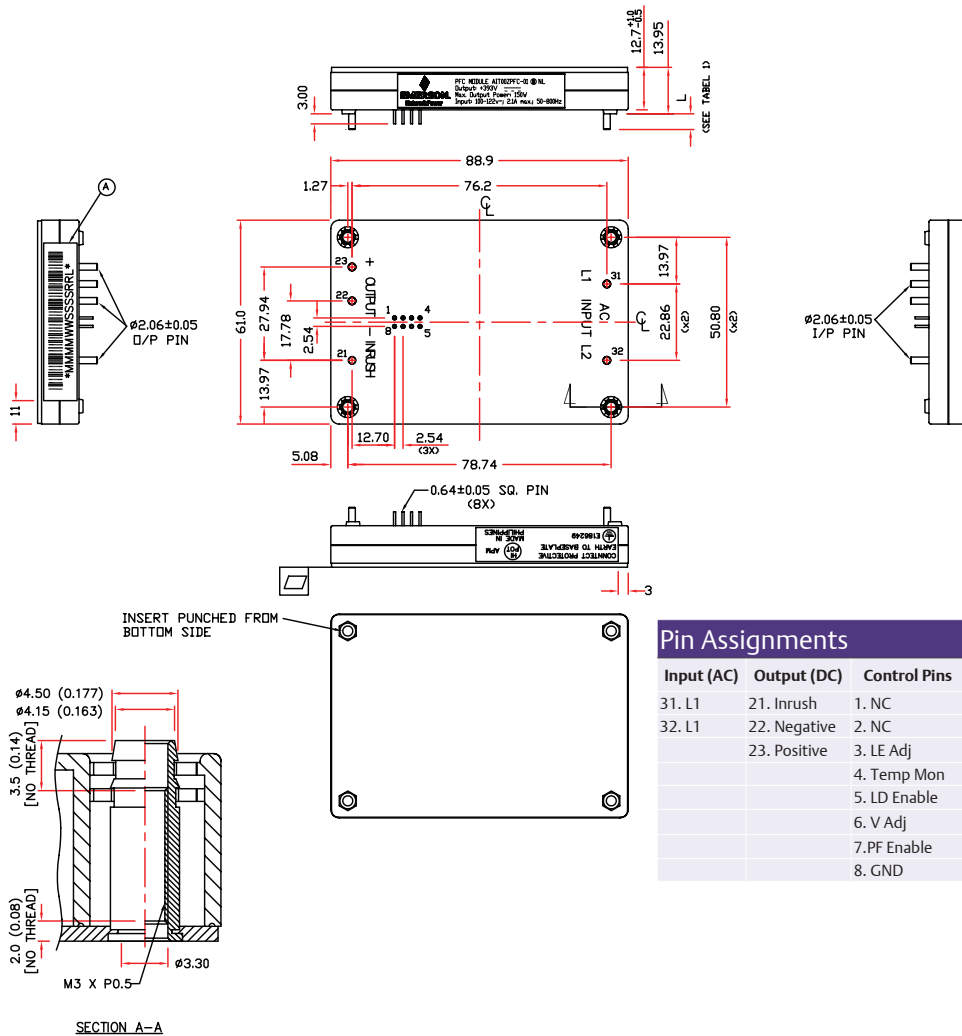
| | |
|---------------------|----------------------------------|
| I/O isolation | none |
| Input to baseplate | 2700 Vdc |
| Output to baseplate | 2700 Vdc |
| Leakage current | < 3 mA at 800 Hz input frequency |



Environmental Specifications

| | |
|----------------------------|---|
| Operating temperature | -20 °C to +100 °C (baseplate temperature) |
| Start-up temperature | -40 °C |
| Storage temperature | -40 °C to +120 °C |
| Overtemperature protection | 120 °C max |
| MTBF | > 1 million hours |

Mechanical Drawing



Pin Assignments

| Input (AC) | Output (DC) | Control Pins |
|------------|--------------|--------------|
| 31. L1 | 21. Inrush | 1. NC |
| 32. L1 | 22. Negative | 2. NC |
| | 23. Positive | 3. LE Adj |
| | | 4. Temp Mon |
| | | 5. LD Enable |
| | | 6. V Adj |
| | | 7. PF Enable |
| | | 8. GND |

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