POWER

AIT02ZPFC-01NL

720 Watts

Data Sheet



Total Power: 720 Watts
Input Voltage: 85 - 264 Vac
# of Outputs: Single

SPECIAL FEATURES

- Unity power factor
- High efficiency - up to 93%
- Universal input voltage and frequency range
- Up to 720 W output power
- Negative enable function
- RTCA-D0 160 compliant
- IEC1000-3-2 compliance at 50 Hz and 800 Hz input
- 100 °C baseplate operating temperature
- Enable output to control DC-DC Converter
- Internal active switch bypassing external inrush current components

SAFETY

- UL cUL 60950 Recognized
- TUV EN60950 Licensed

RoHS 6/6 COMPLIANT

Electrical Specifications

Input	
Input range	85 - 264 VAC (Configurable)
Input Surge	290 VAC / 500 ms
Input Frequency	50/60 Hz / 360-800 Hz
Efficiency[2]	93% @ 230 VAC, 720 W (Typical)
Total Harmonic Distortion	Less than 10%
Power Factor	0.99 typical (115 Vac; 50 Hz to 360 Hz; 320 W); 0.99 typical (230 Vac; 720 W); 0.98 typical (115 Vac; 800Hz; 320 W)
Control	
LD Enable	Direct drive output to opto-isolator
PFC Enable	Neg TTL compatible
Voltage Adjust	79% to 100% Vo
Output	
Output voltage	393 V typical (Io = 1.83 A / Vi > 180 Vac) 393 V typical (Io=0.1A)
Overvoltage Protection	430 max
Power Limit for AC input	Vin = 100 Vac, Pmax = 320 W Vin = 230 Vac, Pmax =720 W Vin = 85 Vac, Pmax = 320 W
Isolation	
I/O isolation	None
Input to base-plate	2700 Vdc
Output to base-plate	2700 Vdc
Leakage current	< 3 mA at 800 Hz input frequency

Environmental Specifications

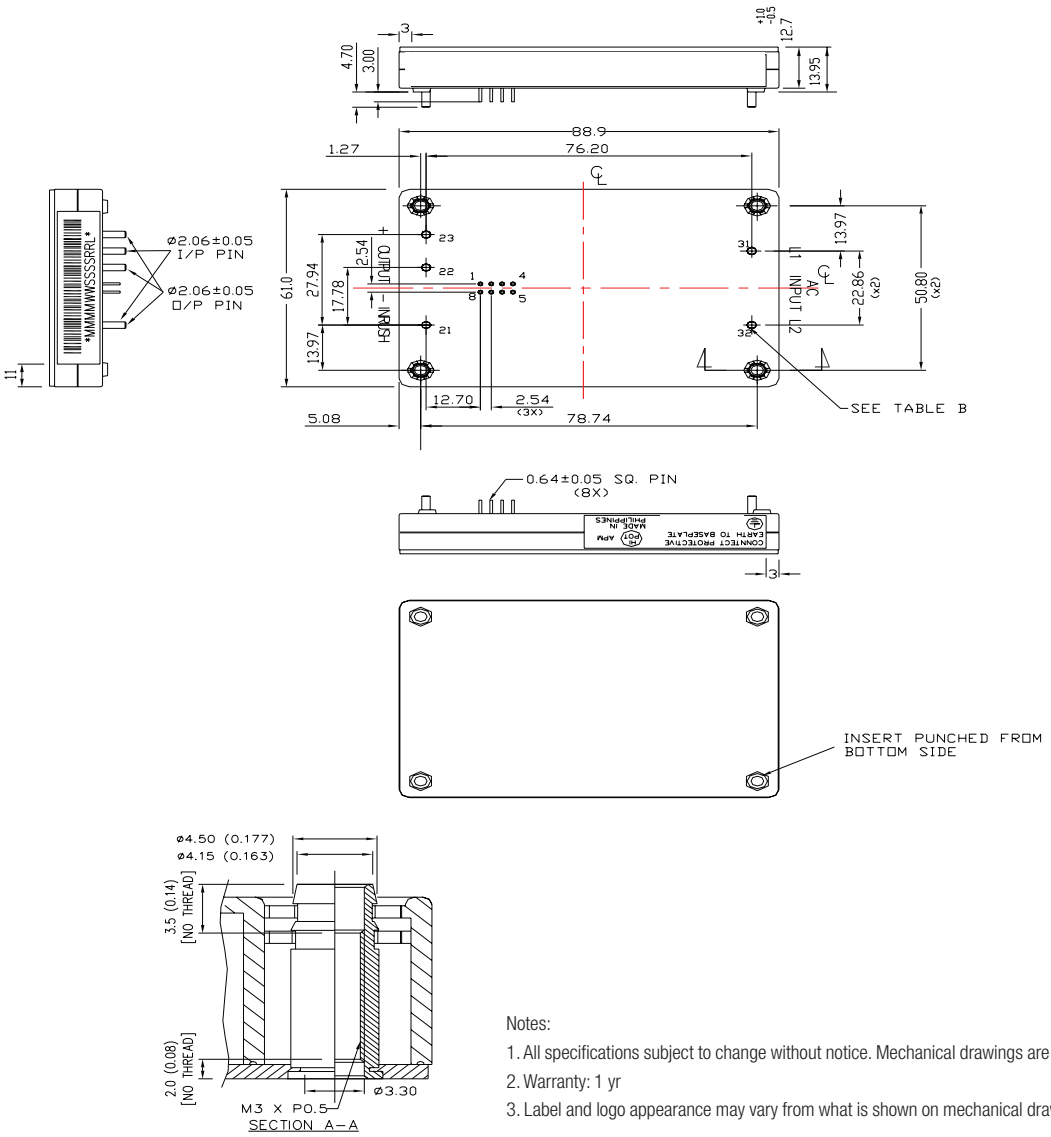
Operating ambient temperature range	-20 °C to +100 °C (baseplate temperature)
Startup temperature	-40 °C to +100 °C (baseplate temperature)
Storage temperature	-40 °C to 120 °C
Overtemperature protection	120 °C Max
Calculated MTBF	> 1 million hours

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Ordering Information

Model number	Description	Notes
AIT02ZPFC-01NL	720 W Low Profile PFC Module	Negative Enabled

Mechanical Drawings



Notes:

1. All specifications subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 1 yr
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

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