



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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



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)
Oversvoltage 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

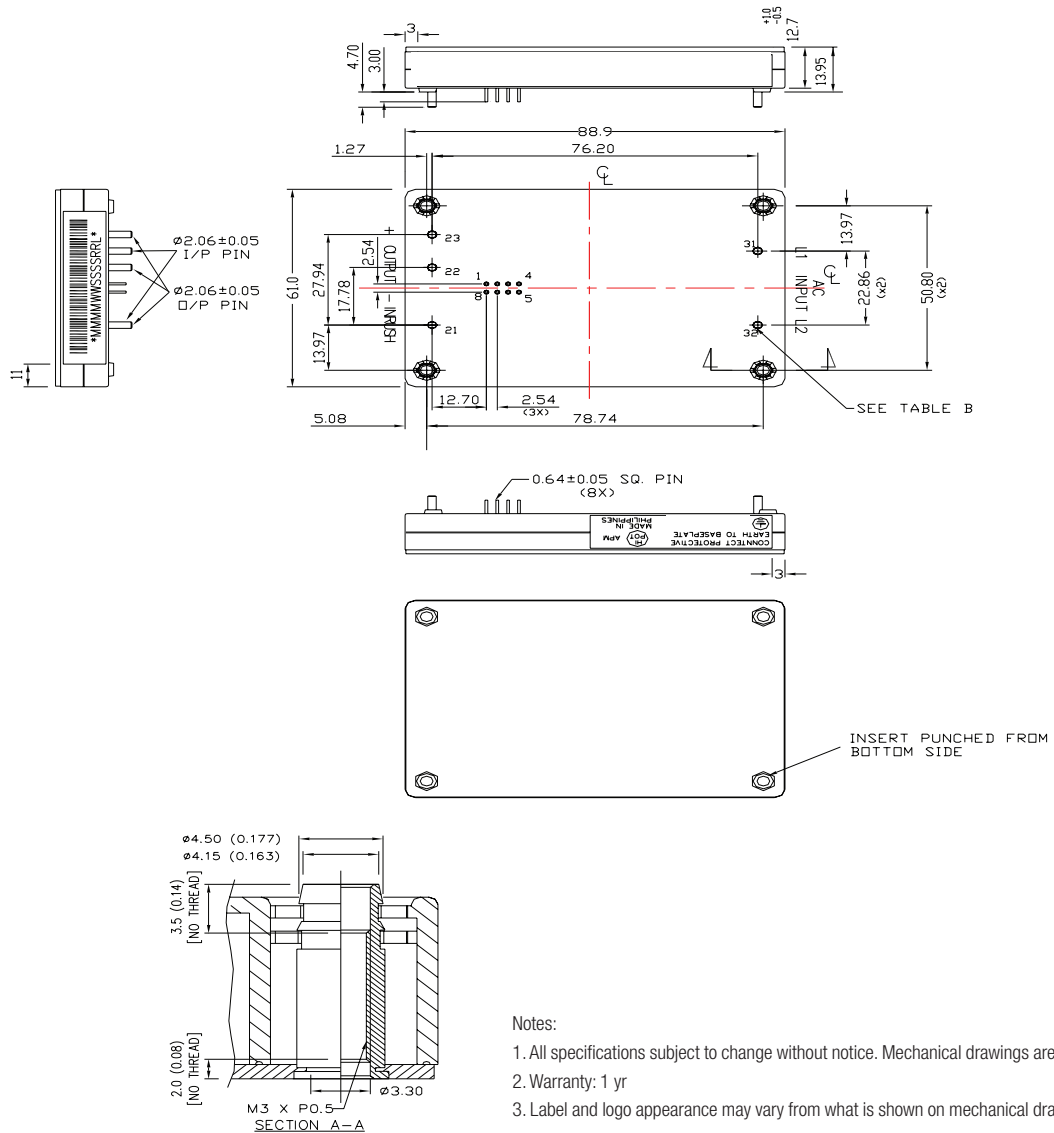
Environmental Specifications

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

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.

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