

**KEY FEATURES:**


- 80W convection cooling
- Compact 1U height , thermal efficient U-channel design
- Isolated, chassis mount, nominal 48V DC input
- 5V/-5V/12V/-12V DC outputs
- Rated at 50 °C
- 100% 50 °C burn-in
- MTBF>243,784 hr. Mil-217F
- 2 year warranty

## 1. Description

The IATX-100U-48DC is an open frame -36V ~ -72 VDC DC-DC converter that can handle 48V DC input, configured as either 80 watts convection cooling or 100 watts forced air-cooling DC/DC converter. It features four outputs (5V/12V/-5V/-12V), utilizes a thermally efficient U-channel chassis and has no audible noise.

### Input Specification

Input Type	DC
Input Voltage	36-72 VAC continuous input range
Input Current	5A at 48VDC
Inrush Current	10A at 48VDC

### Output Specification

Outputs	+5V	+12V	-12V	-5V
Minimum Output Current	0A	0A	0A	0A
Rated Output Current	10A	2A	0.5A	0.5A
Maximum Output Current	12A	3A	-	-
Line Regulation	1%	1%	1%	1%
Load Regulation	1%	5%	5%	5%
Ripple and Noise (peak to peak)	50 mV	100 mV	100 mV	100 mV
Efficiency	> 70%			
MTBF	243,784 hours at 50 °C			

### Interface Signals and Internal Protection

Overload Protection	Fully protected against output overload and short circuit. Automatic recovery upon of overload condition.
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### Safety Approvals, EMI and EMS specification

Safety	UL 1950 CSA 22.2 No.234 VDE EN 60950
EMS	IEC-801-2 15KV air discharge IEC-801-3 10V/M IEC-801-4 2KV
Radiation/Conduction	FCC docket 20780 curve " B" EN 55022 "B"

### Environment Specification

Operating Temperature	0~50 °C
Storage Temperature	-40~85°C
Altitude (max)	up to 10,000 ft

### Dimension

Width x Length x Height	3.3x6.0x1.5 (inches)
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### Ordering Information

IATX-100U-48DC	80W 36~72VDC fanless quad output DC/DC power supply
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## Mechanical Specifications:

### Notes:

Dimensions shown in mm

Tolerance specified is +/-0.4mm between mounting holes, +/-0.8mm for other dimensions.

### Connectors:

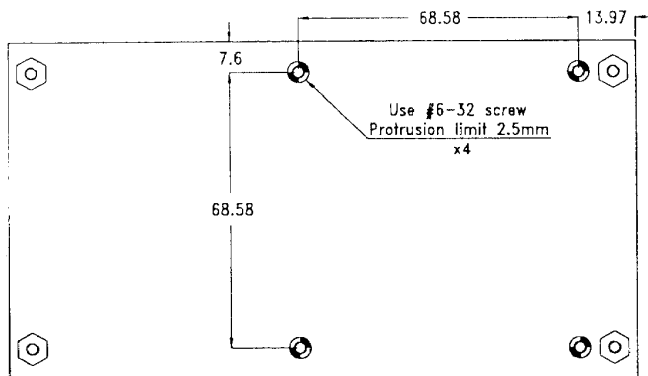
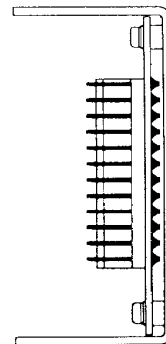
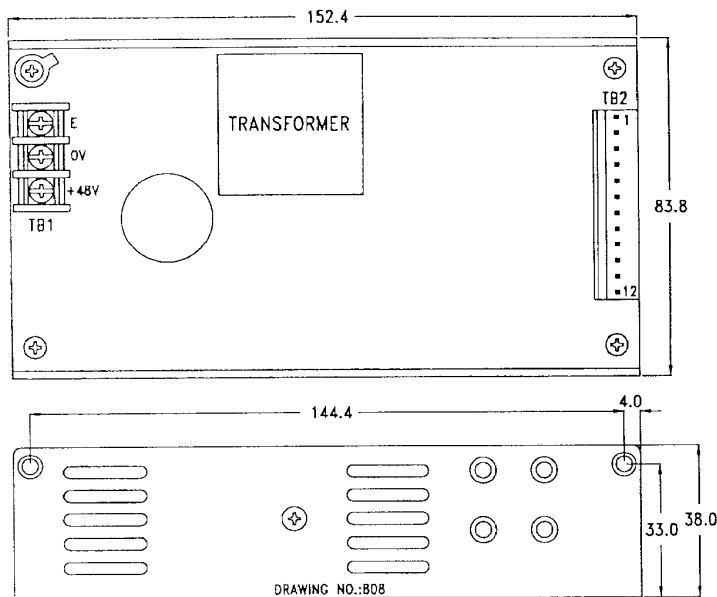
TB1-DC input: Terminal blocks

TB2-DC output: Molex 5273-12A

DC output pin assignment:

### Pin

1. 5V	5. GND	9. +12V
2. 5V	6. GND	10. -12V
3. 5V	7. GND	11. -5V
4. GND	8. +12V	12. N/C



Measuring the screw protrusion first:

