

**IATX-300U-48DC**
**300 Watts**


The IATX-300U-48DC is a DC-DC metal enclosed ATX power supply with nominal 48V DC input, and features an ATX output (3.3V/5V/-5V/12V/-12V/5V stand-by), 300 watts output rating and built-in fan. It is designed for use in ATX personal computers, workstations or equivalent systems.

**Key Features:**

- 300W DC-DC 48V input switching power supply
- Metal enclosed, ATX output
- PG/PF Signal
- +5V Stand by & Remote On/Off
- MTBF>135,000 hr. Mil-217F

**Input Specification**

Input Type	Input Voltage	Input Current	Inrush Current
DC	-40DC to -72 DC	10A @ -48 VDC	10A @ -48 VDC

**Output Specification**

Outputs	+5V	+12V	-12V	-5V	±3.3V	±5Vsb
Minimum Output Current	2A	0.1A	0A	0A	0A	0A
Rated Output Current	25A	10A	1A	1A	8.0A	0.72A
Maximum Output Current	30A	15A	2A	2A	15A	1.2A
Line Regulation	1%	1%	1%	1%	1%	1%
Load Regulation	3%	5%	2%	2%	2%	3%
Ripple and Noise (peak to peak)	50 mV	100 mV	100 mV	100 mV	50 mV	100 mV
Efficiency	> 65%					
MTBF	135,584 hours at 50 °C					

**Interface Signals and Internal Protection**

Power On/Off	This TTL compatible signal (active low) is use to switch ON the main output. When Power on is disconnected from secondary common, all outputs except +5Vsb shall turn off.
Power Good Signal	When power start-up, the power good signal will increase between 100ms to 500ms after all output DC voltages are within regulation limits.
Power Fail Signal	The power fail signal will fall at least 1ms before any of the output voltages lower than the regulation limits.
Overload Protection	Built-in crowbar circuit will automatically shut down the outputs to avoid damaging the external circuits. The trip point of O.V.P. circuit is around 5.7V to 7.0V.

**Safety Approvals, EMI and EMS specification**

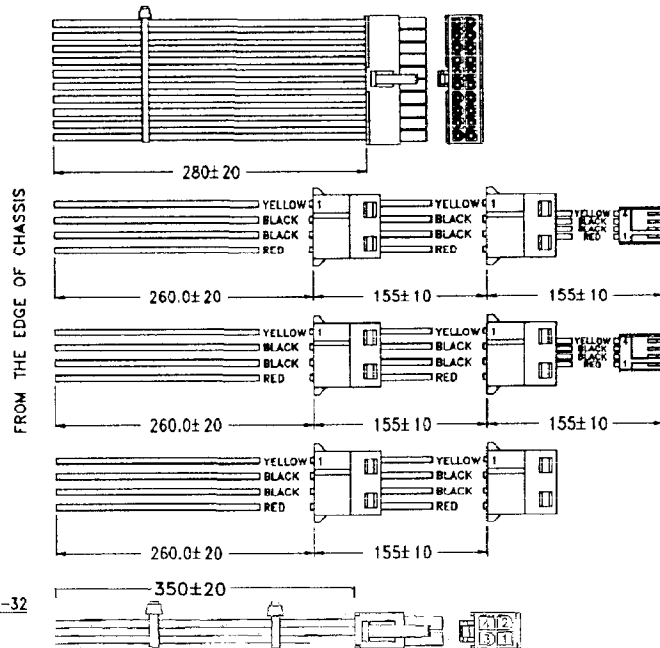
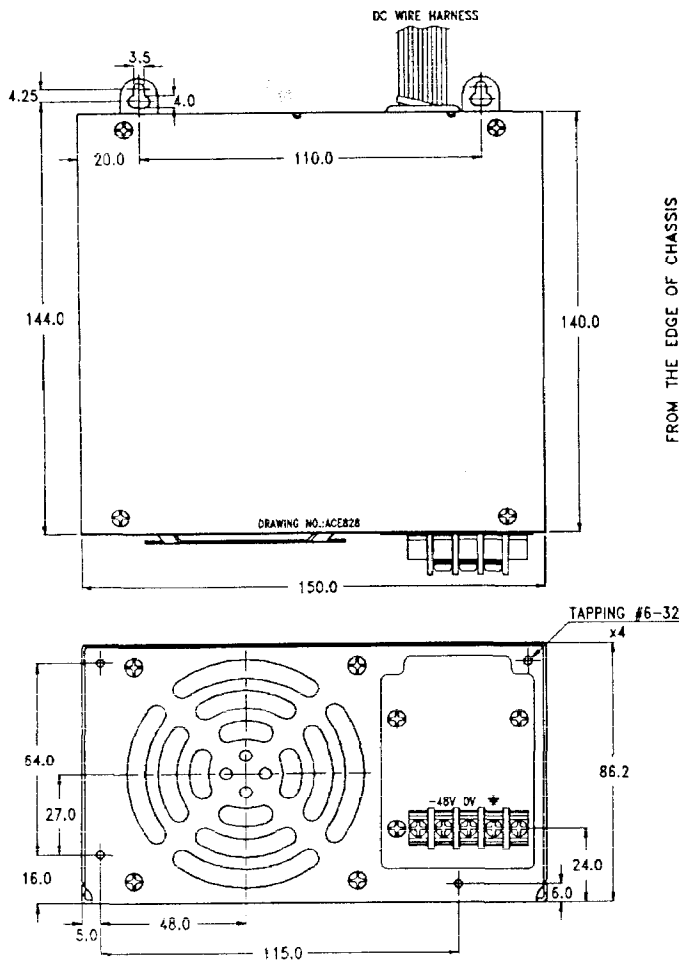
Safety	UL 1950, CSA 22.2 No. 234, EN 60950
EMS	IEC-801-2 8KV air discharge, IEC-801-3 3V/M, IEC-801-4 2KV IEC-801-5 2KV
Radiation/Conduction	FCC class "B", EN 55022 class "B"

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**Environment Specification**

Operating Temperature	0~40 °C
Storage Temperature	-40~75°C
Altitude (max)	up to 10,000 ft

**Dimension**

Width x Length x Height	150x140x86.2 (mm)
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Wire Color	VOLTAGE
ORANGE	3.3V
RED	5V
YELLOW	12V
BLUE	-12V
GREY	P.G
WHITE	-5V
BLACK	GND
PURPLE	+5Vsb
GREEN	POWER ON

**Dimensions (shown in mm as above):** Tolerance specified is +/-0.4mm between mounting holes, +/-0.8mm for other dimensions.

**DC Connectors:** 3 positions terminal blocks

**DC connectors:**

ATX: Molex 39-01-2200 or equivalent

Disk drive: AMP 1-480424-0 or equivalent.

3 1/2" floppy drive: AMP 171822-4 or equivalent.

P4: Molex 39-01-2045 or equivalent.