

IATX-300U-24DC
300 Watts

Key Features:

- Wide range 19 ~ 32VDC input
- metal enclosed, ATX output
- Wrong polarity protection
- Over voltage, overload protection standards
- Input terminal block connector designed
- MTBF > 110000 hrs. per MIL - Handbook 217F
- Rohs compliant

Description: The IATX-300U-24DC is designed for use in ATX personal computers, workstations or equivalent systems. This power supply is typically used in 24V DC input applications.

Input Specification

Input Type	DC
Input Voltage	19-32 VC continuous input range
Input Current	20A at 24 VDC
Inrush Current	5A at 24 VDC

Output Specification

Outputs	+5V	+12V	-12V	-5V	+3.3Vsb	+5Vsb
Minimum Output Current	2A	0.1A	-	-	-	-
Rated Output Current	25A	10A	1A	1A	8A	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	116,858 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	At power start-up, the power good signal will go between 100ms to 500ms high after all output DC voltages are within regulation limits.
Power Fail Signal	The power fail signal will go low at least 1ms before any of the output voltages fall below the regulation limits.
Protection	Short Circuit Protection and Over Voltage Protection

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
Radiation/Conduction	FCC class "B" EN55022 class "B"

Environment Specification

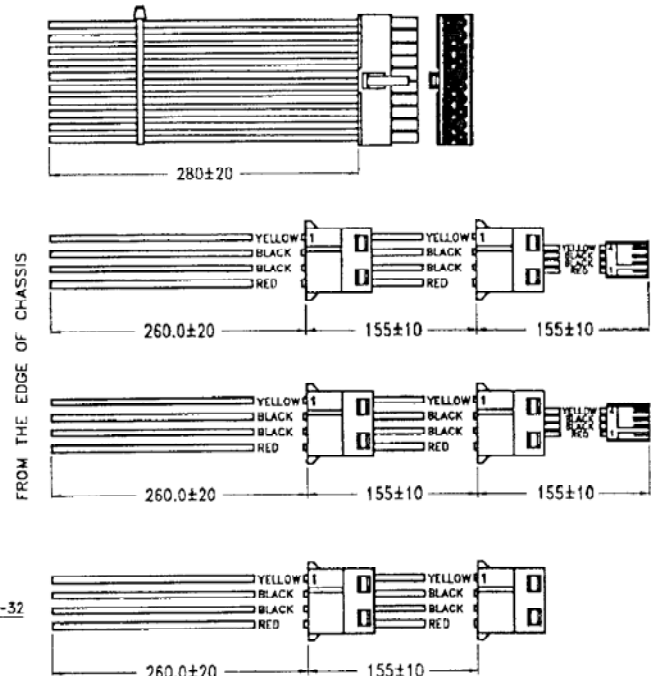
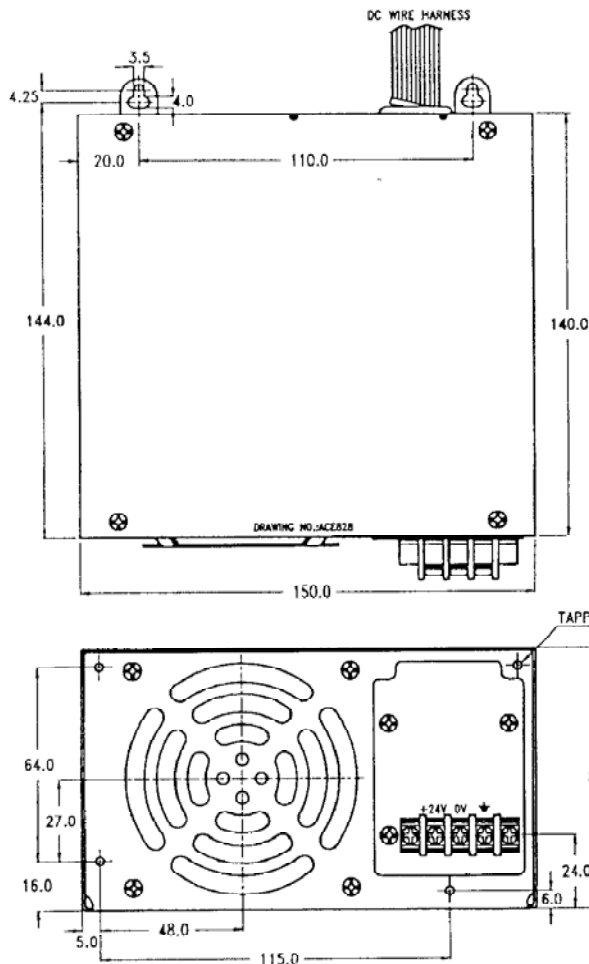
Operating Temperature	0~70 °C
Storage Temperature	-40~75°C
Altitude (max)	up to 10,000 ft

Dimension

Width x Length x Height	5.9 x 5.5 x 3.4 " (inch)
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Ordering Information

IATX-300U-24DC	300W 24VDC metal enclosed ATX DC/DC power supply
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MECHANICAL SPECIFICATIONS:


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

Dimensions are shown in mm as above

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

7.2 DC Connectors

3 positions terminal blocks

7.3 DC connectors

ATX : Molex 39-01-2200 or equivalent. Disk drive : AMP 1-480424-0 or equivalent.

3 1/2" floppy driver : AMP 171822-4 or equivalent. P4 : Molex 39-01-2045 or equivalent.