



FSP300-50AMB

FEATURES

- Meet Intel ATX V3.1
- Meet 80 Plus Bronze
- Certified IEC 62368-1 3rd
- High Reliability
- Over Current Protection
- Over Temperature Protection
- Over Voltage Protection

SAFETY STANDARD APPROVAL



DESCRIPTION

FSP300-50AMB is an industrial level of switching power supply. This power is designed to meet newest Intel ATX 3.1 standard, and high efficiency. Therefore, it is suitable for applications in "Industrial 4U or tower chassis" equipment.

GENERAL SPECIFICATIONS

Input power at power off: < 0.5W (5Vsb)
 Operating altitude: 5,000 meters
 MTBF: ≥ 100,000Hrs, full load at 25°C
 Efficiency (115Vac input): 82%; 85%; 82% at 100%; 50%; 20% load

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
 Input frequency: 47-63 Hz
 Input current: 115Vac / 6.0A, 230Vac / 3.0A

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0~50°C
 Storage temperature: -20~+80°C
 Operating humidity: 5~85% RH non-condensing
 Storage humidity: 5~95% RH non-condensing

OUTPUT SPECIFICATIONS

Max. output power: 300W
 Hold-up time: 115V / 60Hz: 13m Sec. minimum
 230V / 50Hz: 13m Sec. minimum
 Rise time: 115V-rms or 230V-rms
 +5Vdc: 20ms maximum
 +3.3Vdc: 20ms maximum
 +12Vdc: 20ms maximum
 -12Vdc: 20ms maximum

Protection:

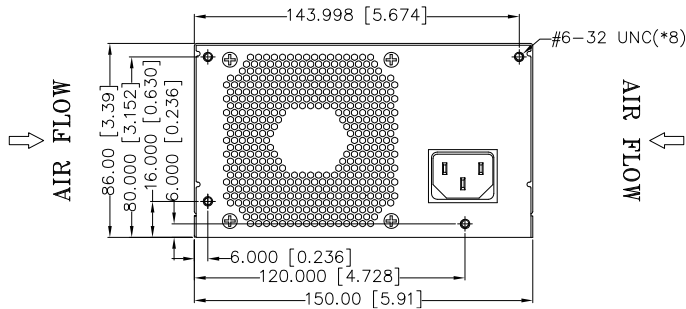
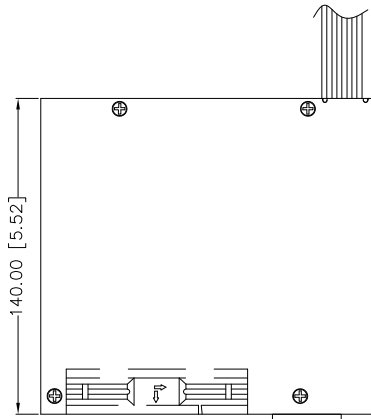
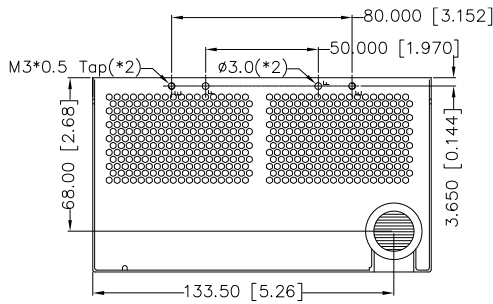
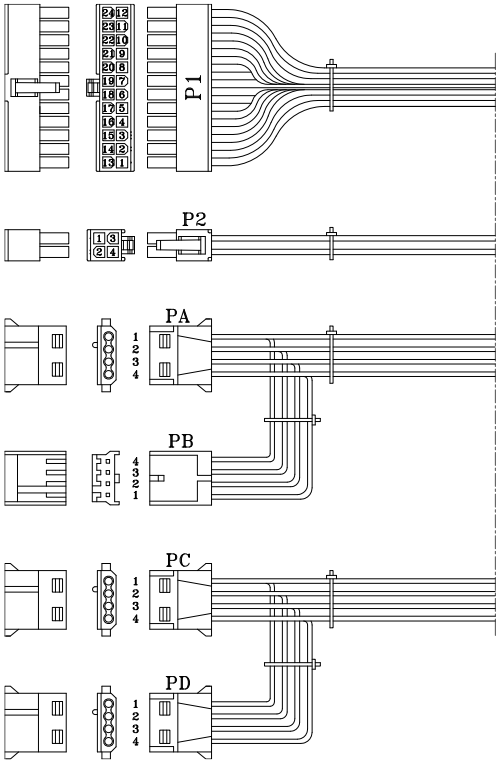
Over voltage: +3.3Vdc: 3.76V~4.3V
 +5Vdc: 5.7V~7.0V
 +12Vdc: 13.4V~15.6V
 Over current: +5Vdc: 25A~35A
 +3.3dc: 25A~35A
 Short circuit: Shutdown & latch off without damage PSU

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	20.0A	21.0A	25.0A	0.3A	2.5A
Min. current	0.0A	0.0A	0.0A	0.0A	0.0A
Regulation	± 5%	± 5%	± 5%	± 10%	± 5%
Ripple/Noise	50mV	50mV	120mV	120mV	50mV

MECHANICAL & AC CONNECTOR SPECIFICATIONS

Unit: mm



REF. D.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	LENGTH		
P1	1	+3.3V	ORANGE	20	MOLEX 39-01-2240 or EQUIV.	350±15 mm		
	2	+3.3V	ORANGE	20				
	3	COM	BLACK	20				
	4	+5V	RED	20				
	5	COM	BLACK	20				
	6	+5V	RED	20				
	7	COM	BLACK	20				
	8	PW-OK	GRAY	22				
	9	+5Vsb	PURPLE	20				
	10	+12V	YELLOW	20				
	11	+12V	YELLOW	20				
	12	+3.3V	ORANGE	20				
	13	+3.3V	ORANGE	20				
	14	+3.3Vs	BROWN	22				
	15	COM	BLACK	20				
	16	PS-ON	GREEN	22				
	17	COM	BLACK	20				
	18	COM	BLACK	20				
	19	COM	BLACK	20				
	20							
	21	+5V	RED	20			MOLEX 39-01-2040 or EQUIV.	310±15 mm
	22	+5V	RED	20				
	23	+5V	RED	20				
	24	COM	BLACK	20				
P2	1	COM	BLACK	20	WST P4-A10202 or EQUIV.	250±15 mm		
	2	COM	BLACK	20				
	3	+12V	YELLOW	20				
	4	+12V	YELLOW	20				
PA	1	+12V	YELLOW	20	AMP 171822-4 or EQUIV.	155±10 mm		
	2	COM	BLACK	20				
	3	COM	BLACK	20				
	4	+5V	RED	20				
PB	1	+5V	RED	20	WST P4-A10202 or EQUIV.	310±15 mm		
	2	COM	BLACK	20				
	3	COM	BLACK	20				
	4	+12V	YELLOW	20				
PC	1	+12V	YELLOW	20	WST P4-A10202 or EQUIV.	155±10 mm		
	2	COM	BLACK	20				
	3	COM	BLACK	20				
	4	+5V	RED	20				
PD	1	+12V	YELLOW	20	WST P4-A10202 or EQUIV.	155±10 mm		
	2	COM	BLACK	20				
	3	COM	BLACK	20				
	4	+5V	RED	20				

