

FSP300-50AEB

FEATURES

- Meet Intel ATX V3.0
- Meet 80 Plus Gold
- Certified IEC 62368-1 3rd
- High Reliability
- Over Current Protection
- Over Temperature Protection
- Over Voltage Protection

SAFETY STANDARD APPROVAL



DESCRIPTION

FSP300-50AEB is an industrial level of switching power supply. This power is designed to meet newest Intel ATX 3.0 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): 87%; 90%; 87% at 100%; 50%; 20% load

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
 Input frequency: 47-63 Hz
 Input current: 115Vac / 4.0A, 230Vac / 2.0A

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: 17m Sec. minimum
 230V / 50Hz: 17m Sec. minimum
 Rise time: 115V-rms or 230V-rms
 +5Vdc: 20ms maximum
 +3.3Vdc: 20ms maximum
 +12Vdc: 20ms maximum
 -12Vdc: 20ms maximum

Protection:

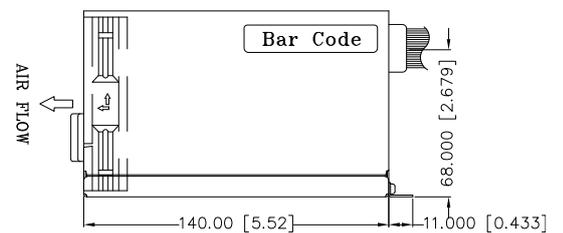
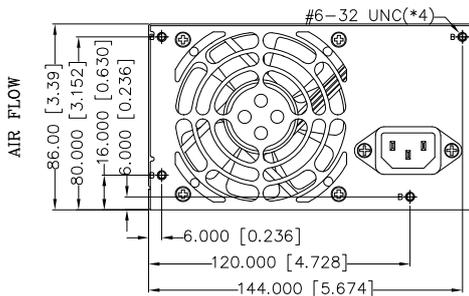
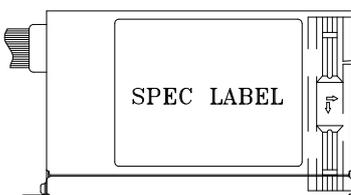
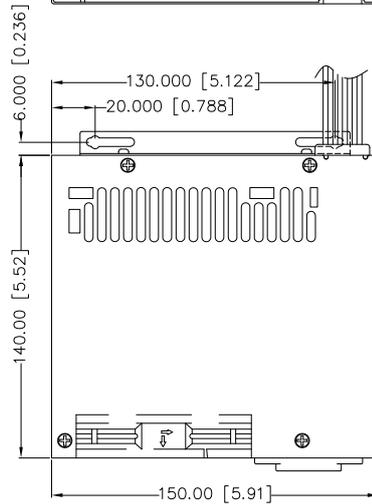
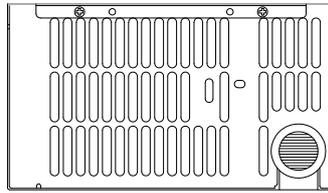
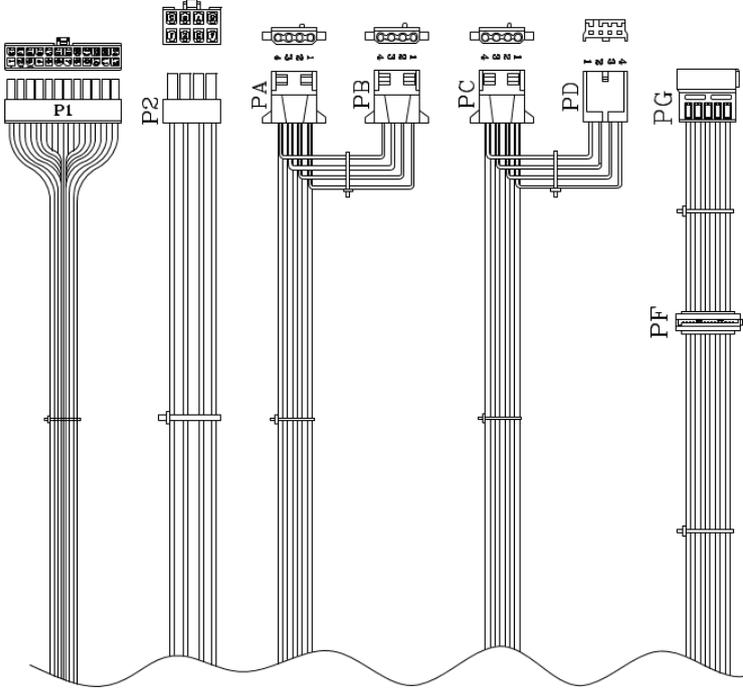
Over voltage: +3.3Vdc: 3.76V~4.3V
 +5Vdc: 5.7V~7.0V
 +12Vdc: 13.4V~15.6V
 Over current: +5Vdc: 30A~50A
 +3.3dc: 35A~55A
 Short circuit: Shutdown & latch off without damage PSU

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	19.0A	16.0A	25.0A	0.3A	3.0A
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. ID.	PNR NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX 39-01- 2240 or EQUIV.	350±15mm
	2	+3.3VDC	ORANGE	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PW-OK	GRAY	22		
	9	+5Vsb	PURPLE	18		
	10	+12V	YELLOW	18		
	11	+12V Sense	YELLOW	22		
	12	+12V	YELLOW	18		
	13	+3.3VDC	ORANGE	18		
	14	+3.3VDC	ORANGE	18		
	15	-12VDC	BLUE	22		
	16	COM	BLACK	18		
	17	PS-ON	GREEN	22		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20	COM	BLACK	18		
	21	+5VDC	RED	18		
	22	+5VDC	RED	18		
	23	+5VDC	RED	18		
	24	COM	BLACK	18		
P2	1	COM	BLACK	18	MOLEX 39-01- 2080 or EQUIV.	350±15mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	COM	BLACK	18		
	5	+12V	YELLOW	18		
PA	1	+12V	YELLOW	18	AMP 1-480424-0 or EQUIV.	350±15mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PB	1	+12V	YELLOW	18	AMP 1-480424-0 or EQUIV.	155±10mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PD	1	+5V	RED	22	AMP 171822-4 or EQUIV.	155±10mm
	2	COM	BLACK	22		
	3	COM	BLACK	22		
	4	+12V	YELLOW	22		
PF	1	+3.3VDC	ORANGE	18	MOLEX SD-67926 -0011 or EQUIV.	350±15mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
	5	+12V	YELLOW	18		
PG	1	+3.3VDC	ORANGE	18	MOLEX SD-67582 -001 or EQUIV.	155±10mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
	5	+12V	YELLOW	18		