



TECHNICAL DATASHEET

FSP300-50FRB

FSP300-50FRB

FEATURES

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

SAFETY STANDARD APPROVAL



DESCRIPTION

FSP300-50FRB is an industrial level of switching power supply. This power is designed to meet newest Intel ATX 3.0 standard, and high efficiency, in such small size. Therefore, it is suitable for applications in "Industrial Box PC" equipment.

GENERAL SPECIFICATIONS

OUTPUT SPECIFICATIONS

Input power at power off:	< 0.5W (5Vsb)	Max. output power:	300W	
Operating altitude:	5,000 meters	Hold-up time:	115V / 60Hz: 13m Sec. minimum	
MTBF:	≥ 100,000Hrs, full load at 25°C		230V / 50Hz: 13m Sec. minimum	
Efficiency (15Vac input):	82%; 85%; 82% at 100%; 50%; 20% load	Rise time:	115V-rms or 230V-rms	
			+5Vdc: 20ms maximum	
INTPUT SPECIFICATI	IONS		+3.3Vdc: 20ms maximum	
Input voltage:	90-264 VAC		+12Vdc: 20ms maximum	
Input frequency:	47-63 Hz		-12Vdc: 20ms maximum	
Input current:	115Vac / 6.0A, 230Vac / 3.0A	Protection:		
		Over voltage:	+3.3Vdc: 3.7V~4.8V	
ENVIRONMENTAL SPECITICATIONS			+5Vdc: 5.7V~7.0V	
Operating temperature:	0~50°C		+12Vdc: 13.3V~16V	
Storage temperature:	-20~+80°C	Over current:	+5Vdc: 20A~30A	
Operating humidity:	10~85% RH non-condensing		+3.3dc: 20A~30A	
Storage humidity:	10~95% RH non-condensing	Short circuit:	Shutdown & latch off without damage PSU	

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	12.0A	14.0A	24.0A	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

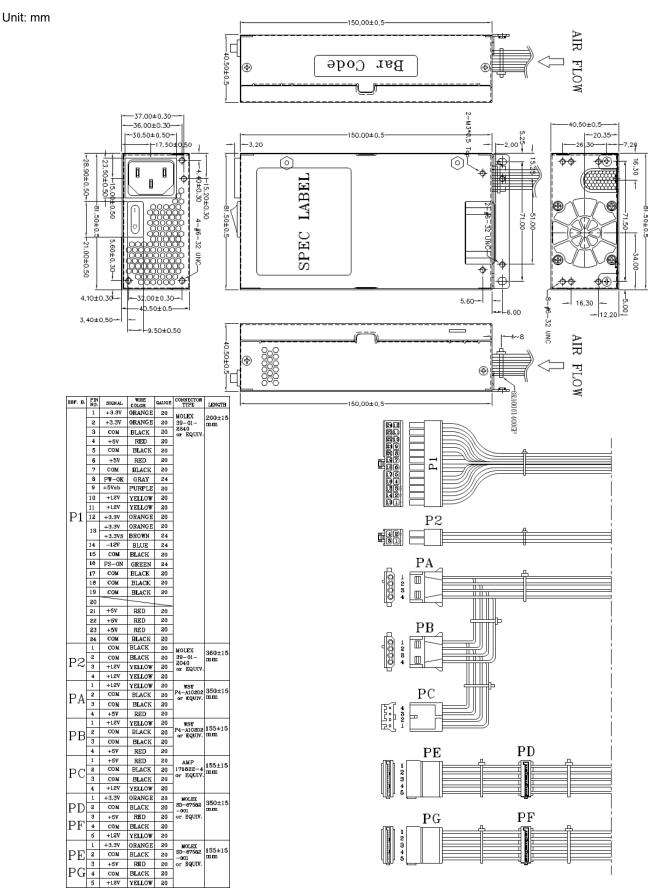
© FSP Group. All Rights Reserved. All trademarks are registered to their respective owners. Rev. 1.0



2

TECHNICAL DATASHEET **300W Flex** FSP300-50FRB

MECHANICAL & AC CONNECTOR SPECIFICTIONS



© FSP Group. All Rights Reserved. All trademarks are registered to their respective owners. Rev. 1.0