

FSP500-50ANB

FEATURES

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

SAFETY STANDARD APPROVAL



DESCRIPTION

FSP500-50ANB 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): 87%; 90%; 87% at 100%; 50%; 20% load

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
 Input frequency: 47-63 Hz
 Input current: 115Vac / 8.0A, 230Vac / 4.0A

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0~50°C
 Storage temperature: -20~+80°C
 Operating humidity: 10~85% RH non-condensing
 Storage humidity: 10~95% RH non-condensing

OUTPUT SPECIFICATIONS

Max. output power: 500W
 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: 5.74V~7.0V
 +12Vdc: 13.4V~15.6V
 Over current: +5Vdc: 30A~50A
 +3.3dc: 30A~50A
 Short circuit: Shutdown & latch off without damage PSU

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	19.0A	16.0A	41.6A	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.	PIN 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				
		+12V	YELLOW	18				
	10	+12V Sense	YELLOW	22				
	11	+12V	YELLOW	18				
	12	+3.3VDC	ORANGE	18				
	13	+3.3VDC	ORANGE	18				
		+3.3V Sense	BROWN	22				
	14	-12VDC	BLUE	22				
	15	COM	BLACK	18				
	16	PS-ON	GREEN	22				
	17	COM	BLACK	18				
	18	COM	BLACK	18				
	19	COM	BLACK	18				
	20							
	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				
P3	3	COM	BLACK	18				
	4	COM	BLACK	18				
	5	+12V	YELLOW	18				
	6	+12V	YELLOW	18				
	7	+12V	YELLOW	18				
	8	+12V	YELLOW	18				
PA	1	+12V	YELLOW	18	AMP 1-480424-0 or EQUIV.	350±15mm		
PC	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				

