TECHNICAL DATASHEET

650W Flex

FSP650-50FUB

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FEATURES

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

SAFETY STANDARD APPROVAL

DESCRIPTION

FSP650-50FUB is an industrial level of switching power supply. This power is designed to meet newest Intel ATX 3.1 standard, and high efficiency, in such small size. Therefore, it is suitable for applications in “Industrial Edge Server” equipment.

GENERAL SPECIFICATIONS

Operating altitude:	5,000 meters
MTBF:	≥ 100,000Hrs, full load at 25°C
Efficiency (115Vac input):	89%; 92%; 90% at 100%; 50%; 20% load

INTPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	115Vac / 10.0A, 230Vac / 5.0A

ENVIRONMENTAL SPECITICATIONS

Operating temperature:	0~50°C
Storage temperature:	-40~+70°C
Operating humidity:	10~85% RH non-condensing
Storage humidity:	10~95% RH non-condensing

OUTPUT SPECIFICATIONS

Max. output power:	650W
Hold-up time:	115V / 60Hz: 12m Sec. minimum 230V / 50Hz: 12m Sec. minimum
Rise time: +3.3V, +5V & +12V	The output voltages shall rise from ≤ 10% of nominal to within the regulation ranges specified in official specification “Section 3.1” within 0.1 ~ 20 ms (0.1 ms ≤ T2 ≤ 20 ms).

Protection:

Over voltage:	+3.3Vdc: 3.76V~4.80V +5Vdc: 5.75V~7.00V +12Vdc: 13.50V~15.50V
Over current:	+3.3Vdc: 25A~45A +5Vdc: 25A~45A +12dc: 65A~75A
Short circuit:	Shutdown & latch off without damage PSU

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	−12V	+5Vsb
Max. current	14.0A	16.0A	54.17A	0.3A	3.0A
Min. current	0.0A	0.0A	0.0A	0.0A	0.0A
Regulation	± 5%	± 5%	+5/−7%	± 10%	± 5%
Ripple/Noise	50mV	50mV	120mV	120mV	50mV

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