

## 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**

INTPUT SPECIFICATIONS

Input voltage:

Input current:

Operating altitude: 5,000 meters

MTBF: ≥ 100,000Hrs, full load at 25°C

89%; 92%; 90% at 100%; 50%; 20% load Efficiency (115Vac input):

90-264 VAC

#### **OUTPUT SPECIFICATIONS**

Max. output power: 650W

Hold-up time: 115V / 60Hz: 12m Sec. minimum

230V / 50Hz: 12m Sec. minimum

Rise time: The output voltages shall rise from ≤ 10% of

+3.3V, +5V & +12V nominal to within the regulation ranges

specified in official specification "Section 3.1"

within  $0.1 \sim 20 \text{ ms} (0.1 \text{ ms} \leq \text{ T2} \leq 20 \text{ ms})$ .

Input frequency: 47-63 Hz Protection:

> 115Vac / 10.0A, 230Vac / 5.0A Over voltage: +3.3Vdc: 3.76V~4.80V

> > +5Vdc: 5.75V~7.00V

+12Vdc: 13.50V~15.50V

+3.3Vdc: 25A~45A Over current:

+5Vdc: 25A~45A

+12dc: 65A~75A

Short circuit: Shutdown & latch off without damage PSU

#### **ENVIRONMENTAL SPECITICATIONS**

Operating temperature: 0~50°C Storage temperature:

-40~+70°C

Operating humidity:

Storage humidity:

10~85% RH non-condensing

10~95% RH non-condensing

## **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



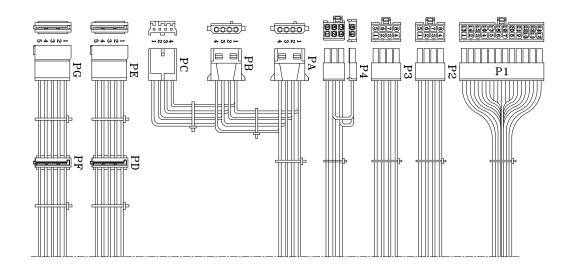
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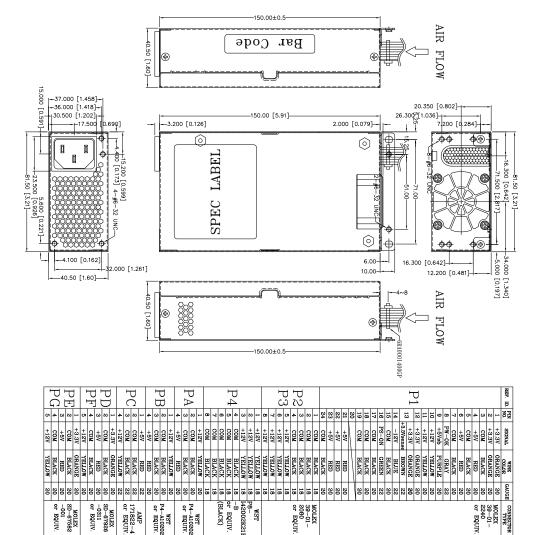
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#### **MECHANICAL & AC CONNECTOR SPECIFICTIONS**

Unit: mm





350±15mn

.55±10mm

.55±10mm

70±10mm 350±15mr