

### TECHNICAL DATASHEET

## 180W Flex

**FSP180-50FRB** 



# **FSP180-50FRB**

#### **FEATURES**

- Meet Intel ATX V3.0
- 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**

Input power at power off: < 0.5W (5Vsb)

Operating altitude: 5,000 meters

≥ 100,000Hrs, full load at 25°C MTBF:

Efficiency (15Vac input): 82%; 85%; 82% at 100%; 50%; 20% load

#### **OUTPUT SPECIFICATIONS**

Max. output power:

Hold-up time: 115V / 60Hz: 13m Sec. minimum

230V / 50Hz: 13m 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: 3.7V~4.8V

> +5Vdc: 5.7V~7.0V +12Vdc: 13.3V~16V

+5Vdc: 15A~25A Over current:

+3.3dc: 15A~25A

Short circuit: Shutdown & latch off without damage PSU

### INTPUT SPECIFICATIONS

Input voltage: 90-264 VAC

Input frequency: 47-63 Hz

Input current: 115Vac / 3.0A, 230Vac / 1.5A

## **ENVIRONMENTAL SPECITICATIONS**

Operating temperature: 0~50°C

Storage temperature: -20~+80°C

10~85% RH non-condensing

10~95% RH non-condensing

## **OUTPUT RATING CHART:**

Operating humidity:

Storage humidity:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	8.0A	12.0A	12.0A	0.3A	2.0A
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

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

Unit: mm

