

TECHNICAL DATASHEET

300W Flex

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

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 current:

Over voltage: +3.3Vdc: 3.7V~4.8V

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

+5Vdc: 20A~30A

+3.3dc: 20A~30A

Short circuit: Shutdown & latch off without damage PSU

INTPUT SPECIFICATIONS

Input voltage: 90-264 VAC

Input frequency: 47-63 Hz

Input current: 115Vac / 6.0A, 230Vac / 3.0A

ENVIRONMENTAL SPECITICATIONS

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 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 |



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MECHANICAL & AC CONNECTOR SPECIFICTIONS

