



**FSP300-50WDB**  
**(Meet 80plus Gold, RoHs Compliant)**  
**300 Watts 2U Switching Power Supply**

**Features**

- Complied with 2U ATX and ATX12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Restriction on Hazardous Substances. Compatible with European Union Directive 2011/65/EU & (EU)2015/863, WEEE directive 2012/19/EU .
- Remote ON/OFF function
- Internal 12V DC fan included
- Low noise and ripple
- Output over voltage, short circuit, and over power protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 15 subpart J, class 'B' 115Vac operation, and CISPR 22 class 'B' at 230Vac operation
- Approved by CB 62368 & 60950-1 2<sup>nd</sup> , EMC. cUL/UL TUV, FCC, CE

**Input Characteristics**

**Input Range:** 90 ~ 264Vac (RMS), Full Range Input  
**Frequency:** 47 ~ 63Hz  
**Input Current:** Max 4A (RMS) @ 115Vac, 2A (RMS) @ 230Vac  
**Inrush Current:** No damage.

**Output Characteristics**

| Output Voltage | Minimum Load | Maximum Load | Load Reg. | Ripple & Noise |
|----------------|--------------|--------------|-----------|----------------|
| +3.3V          | 0A           | 12.0A        | ± 5%      | 50mV P-P       |
| +5V            | 0A           | 14.0A        | ± 5%      | 50mV P-P       |
| +12V           | 0.05A        | 25.0A        | ± 5%      | 120mV P-P      |
| -12V           | 0A           | 0.3A         | ± 10%     | 120mV P-P      |
| +5Vsb          | 0A           | 3A           | ± 5%      | 50mV P-P       |
| -5V (option)   | 0A           | 0.1A         | ± 10%     | 100mV P-P      |

\*+3.3V and +5V total output not exceed 75W. \*-5V option  
\* Total output for this subject power supply is 300W

**Specification**

- **Temperature Range:** Operating: -10°C ~ +50°C;  
storage : -40°C ~ +80°C
- **Humidity:** 85% RH, Non-condensing on operating,  
95%RH, Non-condensing on storage.
- **Dielectric Withstand:** Primary frame ground 1800V AC  
for 2 second
- **Efficiency:** Typical > 90%.
- **Standby Power Consumption (5Vsb):**  
Efficiency> 45%@5Vsb/45mA &230Vac input (2013 Lot 6)  
Efficiency> 55% @ 5Vsb/550mA &230Vac input  
Efficiency> 70% @ 5Vsb/1A &230Vac input  
Efficiency > 70% @ 5Vsb/2.5A &230Vac input
- **Altitude:** The power supply is applied for tropical climates  
and use at altitudes not exceeding 5000m above Sea level
- **Rise time:** Less than 20ms
- **Hold-up Time:** 115V:≥15ms, 230V:≥17ms.
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off  
delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 3.5mA at 264Vac, 50Hz
- **MTBF:** A minimum predicted MTBF (MIL-HDBK-217) of  
100,000 hours of continuous operation at +25°C.
- **Dimensions (LxWxH):**200x100x70mm  
7.88x3.94x2.76inch

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