

### DESCRIPTION

FSP500-50FSPT is an industrial level of switching power supply. The power supply comes to offer the total power capacity up to 500 Watts, and uses unique active PFC (Power Factor Correction) circuit design with its high-load electrical components, makes it to be perfectly used in an industrial environment. In addition, with its full range of input and output electrical features, the power supply is ideally the best choice for server, workstation, communication or any other automation applications to use. The product also complies with the latest safety and EMC standards, which is perfectly to meet various regulations worldwide.



### APPLICATION

For standard, advanced server, NAS and industrial power system.

### FEATURES

- 80 Plus Platinum
- Low Ripple & Noise
- Output over voltage protection
- Short circuit protection on all outputs
- Resettable power shut down
- INTERNAL 4 cm fan
- 100% burn-in under high ambient temperature(50°C)
- Vacuum-impregnated transformer
- MTBF:100K hours at 25°C
- 100% Hi-pot tested
- Line input fuse protection

### WATTAGE

**Wattage:** 500W

### DIMENSION

**Dimension:** 150mm(L) x 81.5mm(W) x 40.5mm(H)

### PRODUCT HIGHLIGHT

**Efficiency Level:** 80 Plus Platinum  
**Altitude:** 5000M  
**PMBus:** v1.2

### INPUT SPECIFICATION

**Input Range:** 90-264 Vac  
**Input Frequency:** 47-63 Hz  
**Input Current:** 115V@ 7.5 Amps-rms maximum  
 230V@ 3.5 Amps-rms maximum

### GENERAL SPECIFICATION

**Efficiency:** 95% 230VAC  
**Voltage:** +3.3V, +12V, +5V, +5SB: ±5%  
**Regulation:**  
**Inrush Current:** 50A @ 115V and 230V  
**PWOK Delay Time:** 500ms > PWOK > 100ms

#### \*Output Voltage and Current Rating

	<b>+3.3V</b>	<b>+5V</b>	<b>+12V1</b>	<b>+12V2</b>	<b>+5Vsb</b>
<b>Ripple-Noise(R-P) mV</b>	50mV	50mV	120mV	120mV	50mV
<b>Regulation Load %</b>	±5%	±5%	±5%	±5%	±5%
<b>Output Max.(A)</b>	15A	18A	24A	24A	3A
<b>Output Min.(A)</b>	0.1A	0.1A	0.1A	0.1A	0.05A

### NOTES

- Maximum continuous total DC output power should not exceed 500W.
- Maximum load on the combined +12V output shall not exceed 40A.
- Combined +3.3V and +5V power shall not exceed 100W.

This content is subject to change, please refer to specification for more detail. FSP reserve the right to change the content without prior notice.

### SAFETY STANDARD APPAOVAL



### OUTPUT SPECIFICATION

**Output Voltage Regulation:** +3.3Vdc output : +3.135 Vdc minimum, + 3.465Vdc maximum  
 +5Vdc output : +4.75 Vdc minimum, + 5.25Vdc maximum  
 +5Vsb output : +4.75 Vdc minimum, + 5.25Vdc maximum  
 +12Vdc output : +11.4 Vdc minimum, + 12.6Vdc maximum

**Output Rise Time:** 115V-rms/230V-rms 5V 20ms Maximum

**Ripple & Noise:** 3.3V:50mV p-p  
 5V:50mV p-p  
 12V1:120mV p-p  
 5Vsb:50mV p-p

### ENVIRONMENTAL SPECIFICATION

**TEMP.Range:** Storage Temperature: -20°C to + 80°C  
 The power supply have a minimum predicted MTBF(MIL-HDBK-217) of 100,000 hours of continuous operation at 25°C, maximum-output load, and nominal AC inout voltage

**MTBF:**