

## DESCRIPTION

FSP500-70AAPB 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 workstation, server 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 8 cm fan 100% burn-in under high ambient temperature(50℃)
- Vacuum-impregnated transformer
- MTBF:100K hours at 25℃
- 100% Hi-pot tested Line input fuse protection

## WATTAGE

**Wattage:** 500W

## DIMENSION

**Dimension:** 140mm(L) x 150mm(W) x 86mm(H)

## PRODUCT HIGHLIGHT

**Efficiency Level:** 80 Plus Platinum  
**Altitude:** 5000M  
**PMBus:** For standard, advanced workstation, server and industrial power system.

## INPUT SPECIFICATION

**Input Range:** 90-264 Vac  
**Input Frequency:** 47-63 Hz  
**Input Current:** 115V@ 8.0 Amps-rms maximum  
 230V@ 4.0 Amps-rms maximum

## GENERAL SPECIFICATION

**Efficiency:** 92%  
**Voltage** +3.3V, +12V, +5V, +5SB: ±5%  
**Regulation:** -12V, -5V: ±10%  
**PWOK Delay Time:** 500ms > PWOK > 100ms

## \*Output Voltage and Current Rating

	+3.3V	+5V	+12V1	+12V2	-12V	-5V	+5Vsb
<b>Ripple-Noise(R-P) mV</b>	50mV	50mV	120mV	120mV	120mV	50mV	50mV
<b>Regulation Load %</b>	±5%	±5%	±5%	±5%	±10%	±10%	±5%
<b>Output Max.(A)</b>	24A	20A	18A	18A	0.5A	0.2A	3A
<b>Output Min.(A)</b>	0.3A	0.3A	0.3A	0.3A	0A	0A	0A

## NOTES

- The +3.3V and +5V total output shall not exceed 120watts.
- The total output for this subject power supply is 500 watts.
- Ripple and noise measurements shall be made under all specified load conditions through a single pole low pass filter with 20MHz cut off frequency. Outputs shall bypassed at the connector with a 0.1uF ceramic disk capacitor and a 47uF electrolytic capacitor to simulate system loading.
- -5V option.

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

**Hold up Time:** 115V/60Hz 12mSec.  
 Minimum@100% Load,  
 230V/50Hz 16mSec.  
**Output Voltage Regulation:** Minimum,@100% Load  
 +3.3Vdc output : +3.5 Vdc minimum, + 4.8Vdc maximum  
 +5Vdc output : +5.5 Vdc minimum, + 7.0Vdc maximum  
 +12Vdc output : +13.4 Vdc minimum, + 16.0Vdc 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  
 12V2:120mV p-p  
 -12V:120mV p-p  
 5Vsb:50mV p-p  
 -5V:50mV p-p

## ENVIRONMENTAL SPECIFICATION

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