

## DESCRIPTION

FSP250-701UH is an industrial level of switching power supply. The power supply comes to offer the total power capacity up to 250 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
- Low Ripple & Noise
- Output over voltage protection
- Short circuit protection on all outputs
- Resettable power shut down
- INTERNAL 4 cm fan
- Dual +12V output (+12V/1,+12V/2)
- -5V is included
- 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:** 250W

## DIMENSION

**Dimension:** 190mm(L) x 100mm(W) x 40.5mm(H)

## PRODUCT HIGHLIGHT

**Efficiency Level:** 80 Plus  
**Altitude:** 2000M

## INPUT SPECIFICATION

**Input Range:** 90-264 Vac  
**Input Frequency:** 47-63 Hz  
**Input Current:** 115V@ 4.0 Amps-rms maximum,  
230V@ 2.0 Amps-rms maximum

## GENERAL SPECIFICATION

**Efficiency:** 92% 230VAC  
**Voltage Regulation:** +3.3V, +12V, +5V, +5SB: ±5%  
-12V, -5V: ±10%  
**Inrush Current:** 50A @ 115V, or 100A @ 230V  
**PWOK Delay Time:** 500ms > PWOK > 100ms  
**EMC Performance:** EN61000-3-2

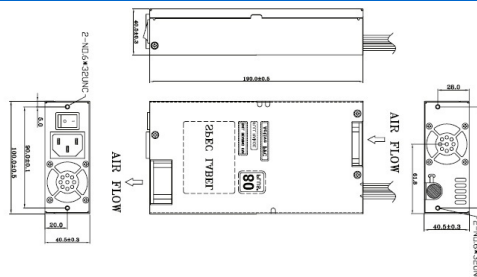
## \*Output Voltage and Current Rating

	+3.3V	+5V	+12V1	+12V2	-12V	-5V	+5Vsb
<b>Ripple-Noise(R-P) mV</b>	50mV	50mV	120mV	120mV	120mV	100mV	50mV
<b>Regulation Load %</b>	±5%	±5%	±5%	±5%	±10%	±10%	±5%
<b>Output Max.(A)</b>	16A	18A	16A	16A	0.8A	0.2A	2.5A
<b>Output Min.(A)</b>	0.5A	0.5A	1A	1A	0A	0A	0A

## NOTES

- 5V, 3.3V, 12V, -12V Will have the regulation to 10% when all load take off.
- The +3.3V and +5V total output shall not exceed 120 watts.
- The total output shall not exceed 250 watts.

## MECHANICAL SPECIFICATION



## SAFETY STANDARD APPROVAL



## OUTPUT SPECIFICATION

**Hold up Time:** 115V/60Hz 16mSec.  
Minimum@100% Load,  
230V/50Hz 16mSec.  
Minimum,@100% Load  
+3.3Vdc output : +3.7 Vdc  
minimum, + 4.8Vdc  
maximum  
+5Vdc output : +5.7 Vdc  
minimum, + 7Vdc maximum  
+12Vdc output : +13.3 Vdc  
minimum, + 16Vdc  
maximum

**Output Rise Time:** 115V-rms/230V-rms 5V  
20ms Maximum  
115V-rms/230V-rms 12V  
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:100mV p-p

**Short Circuit Protection:** load < 0.1 ohm

## 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:**

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