

### DESCRIPTION

FSP400-70PFL is an industrial level of switching power supply. The power supply comes to offer the total power capacity up to 400 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 Bronze
- 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℃)
- Vacuum-impregnated transformer
- MTBF:100K hours at 25℃
- 100% Hi-pot tested Line input fuse protection

### WATTAGE

**Wattage:** 400W

### DIMENSION

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

### PRODUCT HIGHLIGHT

**Efficiency Level:** 80 Plus Bronze  
**Altitude:** 2000M  
**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:** 85% 230VAC  
**Voltage Regulation:** +3.3V, +12V, +5V, +5SB: ±5%  
 -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 | 100mV | 50mV  |
| <b>Regulation Load %</b>    | ±5%   | ±5%  | ±5%   | ±5%   | ±10%  | ±10%  | ±5%   |
| <b>Output Max.(A)</b>       | 21A   | 16A  | 17A   | 17A   | 0.5A  | 0.3A  | 3A    |
| <b>Output Min.(A)</b>       | 0.5A  | 0.5A | 0.5A  | 0.5A  | 0A    | 0A    | 0.1A  |

### NOTES

- 5V, 3.3V, 12V, -12V Will gave the regulation to 10% when all load take off.
- The +3.3V, +5V total output shall not exceed 110 watts.
- The total output shall not exceed 400 watts
- -5V Option, 5vsb peak≤10ms.

### MECHANICAL SPECIFICATION



### SAFETY STANDARD APPAOVAL



### OUTPUT SPECIFICATION

**Hold up Time:** 115V/60Hz 15mSec.  
 Minimum@100% Load,  
 230V/50Hz 15mSec.  
 Minimum,@100% Load

**Output Voltage Regulation:** +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

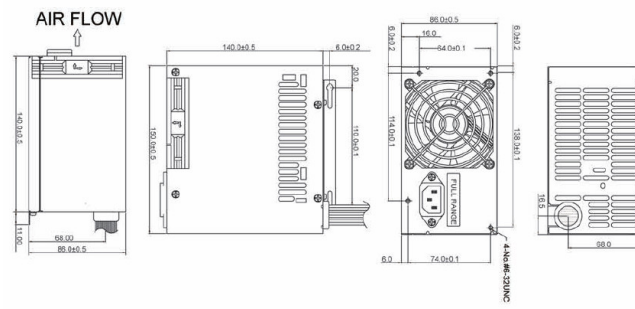
**Output Rise Time:** 115V-rms/230V-rms 5V 20ms  
 Maximum  
 115V-rms/230V-rms 12V 20ms  
 Maximum

**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

### ENVIRONMENTAL SPECIFICATION

**TEMP.Range:** Storage Temperature: -20°C 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



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FSP reserve the right to change the content without prior notice