

DESCRIPTION

FSP1000-50AAG is an industrial level of switching power supply. The power supply comes to offer the total power capacity up to 1000 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 Gold
- 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: 1000W

DIMENSION

Dimension: 190mm(L) x 150mm(W) x 86mm(H)

PRODUCT HIGHLIGHT

Efficiency Level: 80 Plus Gold
Altitude: 5000M

INPUT SPECIFICATION

Input Range: 90-264 Vac
Input Frequency: 47-63 Hz
Input Current: 115V@ 14.0 Amps-rms maximum
230V@ 7.0 Amps-rms maximum

GENERAL SPECIFICATION

Efficiency: 90% 230VAC
Voltage +3.3V, +12V, +5V, +5SB: ±5%
Regulation: -12V: ±10%

*Output Voltage and Current Rating

	+3.3V	+5V	+12V1	-12V	+5Vsb
Ripple-Noise(R-P) mV	50mV	50mV	120mV	120mV	50mV
Regulation Load %	±5%	±5%	±5%	±10%	±5%
Output Max.(A)	30A	30A	83A	0.8A	4A
Output Min.(A)	0A	0.1A	0.2A	0A	0A

NOTES

- Maximum continuous total DC output power should not exceed 1000W.
- Maximum continuous combined load on +3.3DC and +5VDC outputs shall not exceed 150W.
- Ripple and noise measurements shall be made under all specified load conditions through a single pole low pass filter with 20MHz cutoff frequency. Outputs shall bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

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 APPROVAL



OUTPUT SPECIFICATION

Hold up Time: 115V/60Hz 17mSec.
Minimum@100% Load,
230V/50Hz 17mSec.

Output Voltage Regulation: Minimum,@100% Load
+3.3Vdc output : +3.76 Vdc
minimum, + 4.8Vdc
maximum
+5Vdc output : +5.75 Vdc
minimum, + 7.0Vdc
maximum
+12Vdc output : +13.5 Vdc
minimum, + 15.5Vdc
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
-12V:120mV p-p
5Vsb:50mV p-p

ENVIRONMENTAL SPECIFICATION

TEMP.Range: Storage Temperature: -20°C to + 80°C

MTBF: 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