IPC PSU
FSP180-50LE

DESCRIPTION

FSP180-50LE is an industrial level of switching power supply. The power supply comes to offer the total power capacity up to 180 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

- 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: 180W

DIMENSION

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

PRODUCT HIGHLIGHT

Efficiency Level: Non-80+
Altitude: 2000M
PMBus: For standard, advanced server, NAS and industrial power system.

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

Effciency: 68%
Voltage Regulation: -12V, +3.3V, +5V: ±5%
-12V: ±10%
PWOK Delay Time: 500ms > PWOK > 100ms

SAFETY STANDARD APPAOVAL

OUTPUT SPECIFICATION

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

Ouput Voltage Regulation: +3.3Vdc output : +3.7 Vdc minimum, + 4.5Vdc maximum
+5Vdc output : +5.7 Vdc minimum, + 6.5Vdc maximum
+12Vdc output : +13.3 Vdc minimum, + 15.6Vdc 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

Short Circuit Protection: load < 0.1 Ohm

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

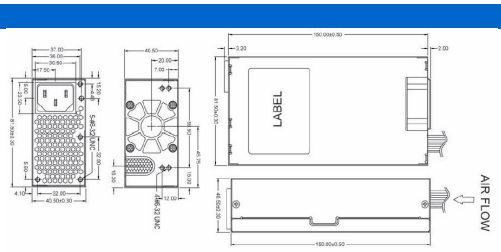
*Output Voltage and Current Rating

	+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)	14A	16A	14A	0.5A	2A
Output Min.(A)	0.3A	0.3A	1.5A	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 90 watts.
- The total output shall not exceed 180 watts

MECHANICAL SPECIFICATION



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