

DESCRIPTION

This is the specification of Model FSP500-60GHN(85); AC-line powered switching power supply with active PFC (Power Factor Correction) circuit, meet EN61000-3-2 and with Full Range Input features. Also, +5Vsb power is less than 0.5W input at power off mode (PS_ON input at high state) which is comply with ErP Lot 6 year 2013 requirement.



APPLICATION

Desktop

WATTAGE

Wattage: 500W

DIMENSION

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

PRODUCT HIGHLIGHT

Efficiency Level: 80PLUS Bronze
Erp Lot: <0.5W
Input Voltage: 100~240Vac

INPUT SPECIFICATION

Input Range: 100-240 Vac
Input Frequency: 47-63 Hz
Input Current: 115V@ < 7 Amps - rms 230V@ < 3.5 Amps - rms

OUTPUT SPECIFICATION

Output Rise Time:
 + 3.3Vdc : 20ms Maximum
 + 5Vdc : 20ms Maximum
 + 12Vdc : 20ms Maximum
 + 5Vsb : 20ms Maximum
 - 12Vdc : 20ms Maximum

*Output Voltage and Current Rating

	+3.3V	+5V	+12V1	+12V2	-12V	+5Vsb
Ripple-Noise(R-P) mV	50mV	50mV	120mV	120mV	120mV	50mV
Regulation Load %	±5%	±5%	±5%	±5%	±10%	±5%
Output Max.(A)	24A	24A	18A	18A	0.5A	2.5A
Output Min.(A)	0.1A	0.2A	0.1A	0.5A	0A	0A

NOTES

- (1) +3.3V & +5V total output not exceed 123W.
- (2) Maximum combined current for the +12V outputs shall be 36A .
- (3) +12V2 peak current is 18A (less then 10m Sec.) , minimum voltage during peak is >11.0Vdc.
- (4) +5Vsb peak current is 3.5A(less then 500m Sec.) , minimum voltage during peak is > 4.5Vdc.

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



GENERAL SPECIFICATION

Efficiency: 82%@ 20% load; 85%@ 50% load; 82%@ 100% load
PWOK Delay Time: 500ms > PWOK > 100ms
EMC Performance: EN55022 class B
 EN55024
 EN 61000-3-2
 EN 61000-3-3

ENVIRONMENTAL SPECIFICATION

TEMP.Range: Operating Temperature:10°C to +40°C
 Storage Temperature: -20°C to +80°C
MTBF: The power supply reliability,when calculated by MIL-HDBK-217;latest revision, are exceed 100,000 hours with all output at maximum load and an ambient temperature of 25°C .