

ATX

FSP-PFG Series (250W~500W)

FEATURE

- Meet 80 Plus Bronze BRONZE
- Build in Active PFC Function
- High Efficiency
- Low Ripple & Noise
- With OVP, OCP and SCP Protection
- Peak Current @ 12V & 5Vsb output



Bronze



SAFETY STANDARD APPROVAL

CB CE FCC
TUV_B UL_R



INPUT SPECIFICATION

Input Voltage	90~264 Vac
Input Frequency	47~63 Hz
Input Current	Max. 4.0A@115V / Max. 2.0A@230V(FSP250W) Max. 6.0A@115V / Max. 3.0A@230V(FSP300W~500W)
Earth leakage current	Max 3.5mA @ 264Vac/50Hz

OUTPUT SPECIFICATION

Output Voltage/ Current	See Product Series List
Output Regulation Load	+3.3V, +5V, +12V, 5VSB : ±5% -5,-12V: ±10%
Ripple and noise	+3.3V, +5V, 5VSB: 50mV p-p / +12V, -12V: 120mV p-p
Output Rise Time	115V-rms/230V-rms + 5V: 20ms Maximum
Over Voltage Protection	+3.3Vdc output: Protection point 3.5V~4.5V +5Vdc output: Protection point 5.7V~6.82V +12Vdc output: Protection point 13.4V~15.6
Short Circuit Protection	Output short circuit is defined to be a short circuit load of less than 0.1 ohm
Hold Up Time	Min 17mS @115Vac/230Vac, Full Load

ENVIROMENTAL

Operating Temperature	0°C~50°C
Storage Temperature	- 20°C~80°C
Operating Humidity	5~85%, RH, Non-Condensing
Storage Humidity	5~95%, RH, Non-Condensing
MTBF	Min. 100,000 hours at full load at 25°C ambient, predicated by MIL-HDBK-217F

EMC & Safety

Safety Standard	EN 60950-1-2
EMI	EN55022, Class B Conducted / Class B Radiate FCC Part15, Class B

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

PRODUCT SERIES LIST

Model Name	Total Output Watt.	Output Current													
		+3.3V		+5V		+12V1		+12V2		-12V		-5V		+5VSB	
		Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)	Min(A)	Max(A)
FSP250-60PFG	250W	0.1	19.0	0.2	15.0	0.1	10.0	0.5	7.0	0.0	0.3			0.0	3.5
FSP300-60PFG	300W	0.1	21.0	0.2	15.0	0.1	11.0	0.5	8.0	0.0	0.3			0.0	3.5
FSP350-60PFG	350W	0.1	21.0	0.2	20.0	0.1	16.0	0.5	16.0	0.0	0.5	0.0	0.3	0.0	3.5
FSP400-60PFG	400W	0.1	21.0	0.2	20.0	0.1	16.0	0.5	16.0	0.0	0.5	0.0	0.3		
FSP460-60PFG	460W	0.1	24.0	0.2	20.0	0.1	16.0	0.5	16.0	0.0	0.5	0.0	0.3	0.0	3.5
FSP500-60PFG	500W	0.1	24.0	0.2	20.0	0.1	16.0	0.5	16.0	0.0	0.5	0.0	0.3	0.0	3.5

Note:

-12V,+3.3V,+5V,+12V will have the regulation±10% when all load take off.

FSP250-60PFG & FSP300-60PFG: 12V2DC supports processor power requirements and must have a separate current limit and provide 13A peak current for 10ms; minimum voltage during peak is>10.8VDC.

FSP250-60PFG: Total combined output of 3.3V and 5V is ≤97W, total output shall not exceed 250watts.

FSP300-60PFG: Total combined output of 3.3V and 5V is ≤103W, total output shall not exceed 300watts.

FSP350-60PFG: The +3.3V and+ 5V total output shall not exceed 130watts and the +3.3V, + 5V,+12V1, +12V2 total output shall not exceed 335watts. Total output shall not exceed 350watts.

FSP400-60PFG: The +3.3V and +5V total output shall not exceed 130 watts and total output shall not exceed 400 watts.

FSP460-60PFG: The +3.3V and +5V total output shall not exceed 150 watts and total output shall not exceed 460 watts.

FSP500-60PFG: The +3.3V and +5V total output shall not exceed 150 watts and total output shall not exceed 500 watts.

Mechanical Drawing

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

