

IPC - FLEX**FSP-MP Series (180W)****FEATURE**

- Full Range AC input design
- Build in Active PFC circuit
- Meet SFX 12V 2.0
- Meet the harmonic with the EN61000-3-2
- Meet IEC 60601-1 and EMI EN55011 regulation

**SAFETY STANDARD APPROVAL****INPUT SPECIFICATION**

Input Voltage	90 ~ 265 Vac
Input Frequency	47 ~ 63 Hz
Input Current	6.0A max at 115V 3.0A max at 230V
Inrush Current	50 A peak at 115V 80A peak at 230V
Earth leakage current	Not exceed 0.5mA at 264Vac, 63Hz

OUTPUT SPECIFICATION

Output Voltage/ Current	See Product Series List
Output Regulation Load	+3.3V, +5V, +12V, +5VSB: $\pm 5\%$ -12V: $\pm 10\%$
Ripple and noise	+3.3V, +5V, +5VSB: 50mVp-p +12V, -12V: 120mVp-p
Over Voltage Protection	+3.3V output: +3.7V ~ +4.5V +5V output: +5.7V ~ +6.5V +12V output: +13.3V ~ + 15.6V
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 at 115V/60Hz and 230V/50Hz

ENVIRONMENTAL

Operating Temperature	0°C~50°C
Storage Temperature	-20°C~80°C
Operating Humidity	85% RH, Non-condensing
Storage Humidity	95% RH, Non-condensing
MTBF	Min. 100,000 hours at Max. load and 25°C ambient predicted by MIL-HDBK-217

EMC & Safety

Safety Standard	IEC 60601-1
Emission	EN55011 and FCC Part 18 Subpart C

IPC - FLEX

FSP-MP Series (180W)

PRODUCT SERIES LIST

Model Name	Total Output Watt.	Output Current													
		+3.3V		+5V		+12V1		-12V		+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)		
FSP180-50MP	180W	0.3	16.8	0.5	12.0	1.5	12.0	0.0	0.8	0.0	2.0				

Note:
 -12V, +3.3V, +5V, +12V will have the regulation to $\pm 10\%$ when all load take off.
 The +3.3V and +5V total output shall not exceed 61watts. The +3.3V, +5V and +12V total output shall not exceed 161watts and the total output for this subject power supply is 180watts.

Mechanical Drawing

Dimension 190.0(L) x 81.5(W) x 40.5(H) mm

