



Key features

- Internal filter
- Low ripple and noise
- Over load protection and short circuit protection
- High efficiency, high density, fine quality and low price
- Industrial/military design
- Six sides metal shielding, International standard pin
- 100% test and work
- 3 Years product warranty
- Soft start and remote on / off control



RoHS

SPM100(150)series --- a wiring module power supply offered by Zhongyiguang. The maximum output power is 100 (150) W , high efficiency, low loss, and adopts the design of Europe and the United States first-line brand components. It has high reliability, small size, high power density, good anti-interference characteristics, and widely used in military industry, communications, industrial automation, industrial control and so on related high-end industry.

Electrical specifications

Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
SPM100-S12-FA	220 (90-265)	96	12	8	150	85
SPM100-S15-FA		100	15	6.6	150	86
SPM100-S24-FA		100	24	4.2	150	87
SPM100-S48-FA		100	48	2.1	150	89
SPM150-220S12-FA	220 (165-265)	144	12	12	150	85
SPM150-220S15-FA		150	15	10	150	86
SPM150-220S24-FA		150	24	6.25	150	87
SPM150-220S48-FA		150	48	3.1	150	89

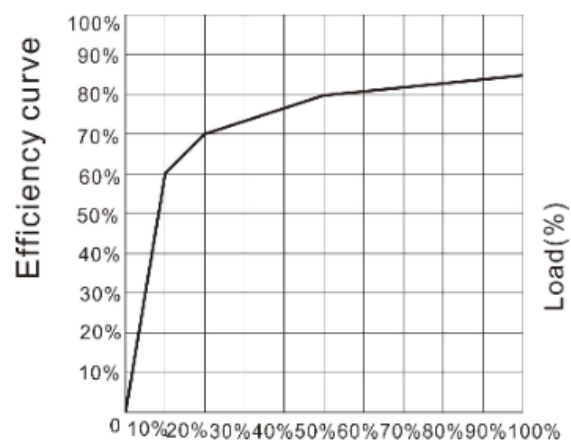
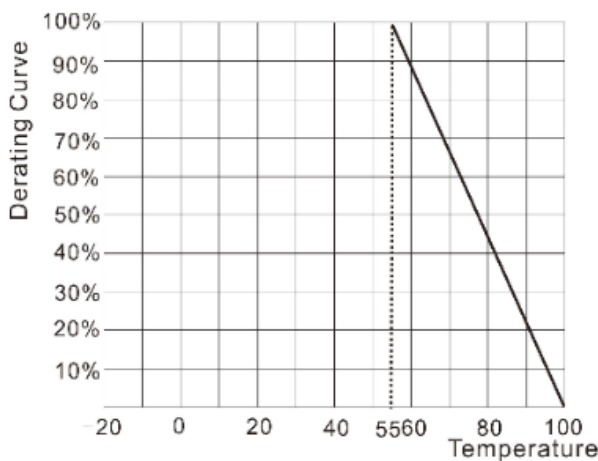
General features

Output	Output accuracy	±2.0%(Nominal)Rated load, Nominal input voltage@25°C	
	Line regulation	±1.0%(Nominal)Rated load, Nominal input voltage range @25°C	
	Load regulation	±1.0%(Nominal) Nominal input voltage ,10% ~ 100% Nominal load.	
	Setup rise time(TYP)	100ms/230VAC	200ms/115VAC at full load
	Output hold-up time(TYP)	40ms/230VAC	15ms/115VAC at full load
Input	Input voltage range	90~ 264VAC	80 ~ 370VDC
	Input frequency	47 ~ 440Hz	
	Input current(TYP)	285m A / 115VAC	175m A / 230VAC
	Inrush current(TYP)	30 A / 230 VAC	
	Recommended values for External Fuses	10Ω/2W	
Protection	Leakage current(TYP)	<0.1mA at 265VAC/50Hz	
Protection	Over current and short circuit protection; automatic recovery after troubleshooting		



Working environment	Operating temperature	-40 ~ +70 °C (According to the output load derating)
	Humidity	85% .RH max
	Storage temperature	-40 ~ +85, 10 ~ 95% RH
	Temperature coefficient	0.03%/ (0~ 50°C)
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes
Safety and EMC(Note:3)	Safety standards	EN60950,EN60601,UL60950
	I/O-isolation voltage	≥1500Vac
	insulation resistance	500MΩ at 500Vdc
	EMI / RFI conducted	EN55011, EN55022 (CISPR22)
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV
	RS	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4 level 4 1kV
Others	Surge	IEC/EN 61000-4-5 level 4 2kV
	MTBF	1000K hrs min. MIL-HDBK-217F(25)
	Dimension	139*88*30mm (注5)
	Weight	580g
Notes	Packing box	360*300*250mm
	1.	Unless otherwise indicated of the above data,Our products are tested in the condition of TA=25o°C,humidity<75%, 230Vac nominal voltage input and rated load output.
	2.	Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
	3.	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
	4.	Products of special requirements, please contact with our engineer.

Output derating



Block diagram