



Key features

- Universal input:90-264 VAC, 50/60 Hz
- Low ripple and noise
- Over load and short circuit protection
- High efficiency, high density, the efficiency is up to 91%.
- Industrial design
- Active power factor, PF≥0.95@230Vac
- Lower power, ROHS
- Slim Design, only 30mm
- 3 Years product warranty



SPM300 series --- a wiring module power supply offered by Zhongyiguang. The maximum output power is 300 w, high efficiency, low loss, and adopts the design of Europe and the United States first-line brand components. It has high reliability,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

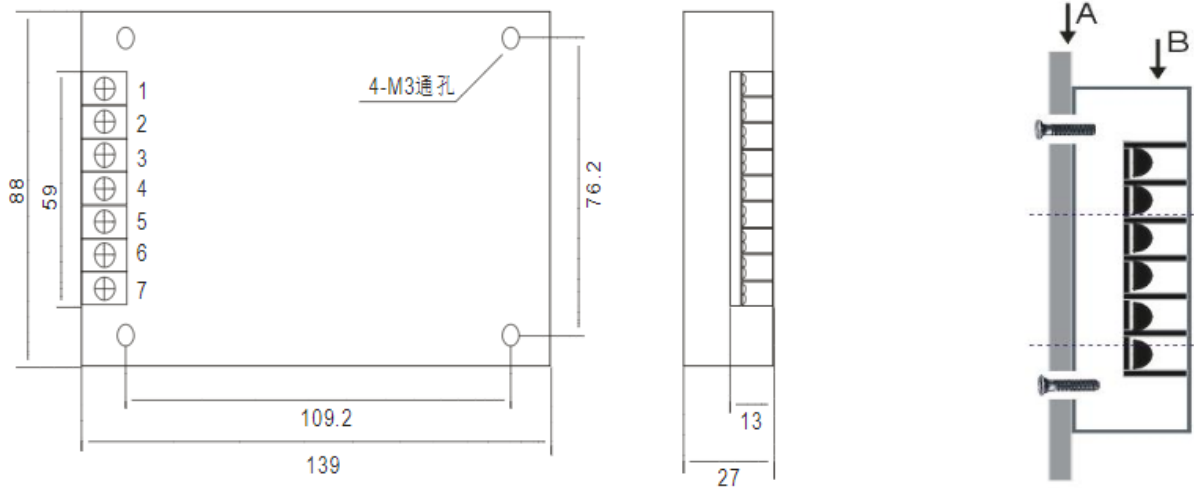
Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
SPA200-S05	90 ~ 265Vac	200	5	40	150	85
SPA200-S12	90 ~ 265Vac	200	12	16	150	88
SPA200-S15	90 ~ 265Vac	200	15	13	150	89
SPA300-S24	90 ~ 265Vac	300	24	12.5	150	89
SPA300-S36	90 ~ 265Vac	300	36	8.3	150	90
SPA300-S48	90 ~ 265Vac	300	48	6.25	150	91

General features

Output	Output voltage accuracy	±2.0%	
	Source effect	±1.0%	
	Load effect	±1.0%	
	Starting time (TYP)	100ms/230VAC	200ms/115VAC at full load
	Output hold time (TYP)	40ms/230VAC	15ms/115VAC at full load
Input	Input voltage range	90 ~ 265VAC	
	Input frequency range	47 ~ 63Hz	
	Input current (TYP)	3.5A /115VAC 1.5A / 230VAC	
	Inrush current (TYP)	Cold boot 50 A / 230 VAC	
	Recommended values for External Fuses	T10A/250Vac	
	Leakage current (TYP)	< 1mA at 230VAC/50Hz	
	Power factor PF (TYP)	> 0.95 230VAC Full load	

Protection	Over current protection	130--150% load, automatic recovery after troubleshooting
	Over temperature protection	automatic recovery after troubleshooting
	Over pressure protection	Over voltage would be locked.
Work environment	Operating Temperature	-40 ~ +80 °C (According to the output load derating) note:See cooling mode
	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 Standard	UL60950,EN60950
	I/O-Isolation voltage	I/P-O/P:3KVAC I/P-FG(CASE):1.5KVAC O/P-FG(CASE):0.5KVAC
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:> 100M Ohms/500VDC 25°C 70% RH
	EMI / RFI conducted	Conform to EN55011, EN55022 (CISPR22) class A
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV
	RF	IEC/EN 61000-4-3 level 4
	EFT	IEC/EN 61000-4-4 level 4 4kV
Others	SURGE	IEC/EN 61000-4-5 level 4 2kV
	MTBF	≥130K hrs min. MIL-HDBK-217F(25)
Notes	Dimension	139*88*27mm (L*W*H)
	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. The efficiency is measured after 0.5h of the engine Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor 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 	

Dimension



Pin	1	2	3	4	5	6	7
Function	AC	AC	FG	+Vo		-Vo	

Heat sink according to the installation :

- Figure A heat sink material: aluminum, 2.0mm, B is power module.
- $\geq 200W$, the area of A $\geq 3000cm^2$,
- between A and B should be filled with thermal grease.