#### AC-DC Module Power Supply 30-50W SPM30-50 Series

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SPM50-220S50-EA

- Universal input: 85-264 VAC, 50/60 Hz
- Low ripple and noise
- Over load and short circuit protection
- Optional of constant current mode of output
- Industrial/military design、chassis type mounted;
- Lower power, RoSH, no-load loss < 0.75W</li>
- 100% test and work
- 3 Years product warranty

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SPM (30) (36) (50) series --- a wiring module power supply offered by Zhongyiguang. The maximum output power is (30) (36) (50) 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** Output Output Output Model Input voltage Efficiency (%) Ripple(mv) Power(W) voltage(V) current(A) SPM30-S05-EA 30 5 6.0 76 100 100 SPM30-S12-EA 30 12 2.5 82 85 ~ 264VAC 90 ~ 370VDC SPM30-S24-EA 1.25 85 30 24 100 100 SPM30-S48-EA 30 48 0.625 86 SPM36-S05-EA 5 7.0 100 76 100 SPM36-S12-FΔ 36 12 3.0 82 90 ~ 264VAC 100 ~ 370VDC SPM36-S24-EA 36 24 1.5 100 85 100 SPM36-S48-EA 36 48 0.75 86 SPM50-220S12-EA 48 12 4 100 82 100 SPM50-220S24-EA 50 24 2.1 85 220 SPM50-220S48-EA 48 1.05 100 (165~264)VAC

Description: due to the requirement of product naming standard, SPM50-220SXX-EA series products are originally called SPM50-SXX-EA

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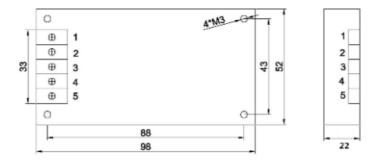
General features						
Output	Output accuracy	±2.0%				
	Line regulation	±1.0%				
	Load regulation	±1.0%				
	Setup rise time(TYP)	100ms/230VAC	200ms/115VAC a	at full load		
	Output hold-up time(TYP)	40ms/230VAC	15ms/115VAC a	t full load		
Input	Input voltage range	SPM30-SXX-EA	85 ~ 264VAC	90 ~ 370VDC		
		SPM36-SXX-EA	90 ~ 264VAC	100 ~ 370VDC		
		SPM50-220SXX-EA	220(165~264)VAC	2		



### AC-DC Module Power Supply 30-50W SPM30-50 Series

		SPM30-SXX-EA	0.55 A / 115VAC 0.28 A / 230VAC	
	Input current (TYP)			
		SPM36-SXX-EA	0.75 A / 115VAC	
	1 1	SPM50-220SXX-EA	0.5 A / 230VAC	
	Input frequency	47 ~ 63Hz		
	Input current(TYP)	285m A / 115VAC 175m A / 230VAC		
	Inrush current(TYP)	Cool boot 30 A / 115 VAC 50A / 230 VAC		
	Recommended values for External Fuses	T2A / 250Vac (disconnected slowly)		
	Leakage current(TVP)	<1mA at 230VA	C/50Hz	
Protection	Over current and short circuit protection, a	automatic recovery after	troubleshooting.(hiccap mode)	
Working	Operating temperature	$-40 \sim +70$ °C (According to the output load derating )		
	Humidity	85% .RH max		
	Storage temperature	-40 ~ +85, 10 ~ 95% RH		
environment	Temperature coefficient	0.03%/ (0~ 50℃)		
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes		
	Safety standards	Conform to UL1012,EN60950,UL60950		
	I/O-isolation voltage	I/P-O/P:2.5KVAC	I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	insulation resistance	I/P-O/P,I/P-FG,O/P-F	G:>100M Ohms/500VDC 25℃ 70% RH	
Safety and	EMI / RFI conducted	Conform to EN55011, EN55022 (CISPR22)		
EMC(Note:3)	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV		
	RS	IEC/EN 61000-4-3		
	EFT	IEC/EN 61000-4-4 level 4 4kV		
	Surge	IEC/EN 61000-4-5 level 4 2kV		
	MTBF	200K hrs min. MIL-HDBK-217F(25)		
045	Dimension	50.8*25.4*15.5mm。		
Others	Weight	215g		
	Packing box	360*300*250mm		
Notes	<ol> <li>Unless otherwise indicated of the above data, Our products are tested in the condition of TA=250°C, humidity &lt;75%,230Vac nominal voltage input and rated load output.</li> </ol>			
	<ol> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> </ol>			
	<ol> <li>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.</li> </ol>			
	4. Mark" C" means that the product is stabilization of output current. For example: "SPM30-S12-EA-C" means Vo=12V Io=2.5A, Io is stabilization.			

# Dimension



Pin	Definition		
1	AC (L)	ACinput	
2	AC (N)	ACinput	
3	FG	Chassis	
		ground	
		Positive	
4	+Vo	output	
5	-Vo	Negative	
,	-70	output	

## Product schematic diagram