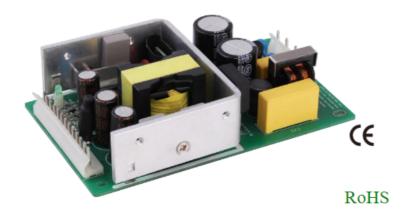


AC-DC Switching Power Supply 100W SF100 Series



Key features

- Universal input: 90-265Vac
- Internal EMI filter
- Single output
- Input surge current, over load protection
- Safety class:Class I
- 3 years product warranty

SF100 series --- a super switching power supply offered by Zhongyiguang. The output power of this series module power supply is 100 W, with low leakage current, which is only 0.75mA, the size (127*76*30mm) and isolated pressure up to 3kv, etc. The product is safe and reliable, which has a good EMC. EMC and safety specifications meet the IEC/EN61000-4, CISPR22/EN55022, UL60950/EN60950/EN60601 and other related standards. This series of products are widely used in smart home, high-end decorative lighting, medical, industrial, office and civil industries, such as applied to a relatively harsh environment electromagnetic compatibility must refer to the application circuit.

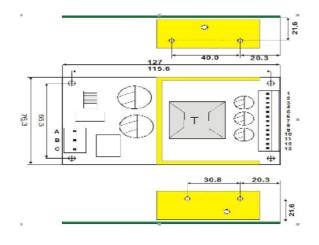
Electrical specifications Output Output Output Model Input voltage Ripple(mv) Efficiency (%) Power(W) voltage(V) current(A) SF100-S12 90 ~ 265Vac 100 12 8.3 < 120 83 SF100-S15 90 ~ 265Vac 100 15 6.6 < 150 85 SF100-S24 90 ~ 265Vac 100 24 4.2 < 240 85 90 ~ 265Vac SF100-S36 100 36 2.7 < 240 86

General features				
Output				
	Output voltage accuracy	±1.0% @100%load		
	Source effect	±1.0% @100%load		
	Load effect	±1.0% @10-100%load		
	Starting time (TYP)	3s/230VAC @100%load		
	Output hold time(TYP)	16ms/230VAC @100% load		
Input	Input voltage range	90 ~ 265VAC		
	Input frequency range	47 ~ 63Hz, 440Hzmax		
	Input current(TYP)	1.2A MAX/100VAC 0.5A MAX/ 240VAC		
	Inrush current(TYP)	Cold boot 50A/115VAC 100 A/230 VAC at full load		
	Leakage current (TYP)	< 0.75mA at 230VAC/60Hz		
Protection	Short circuit protection: automatic recovery after troubleshooting;			
FIOLECTION	Over-current protection, 110%150% load, automatic recovery after troubleshooting.			
Work	Operating Temperature	-40 ~ +70 °C (According to the output load derating)		
	Humidity	10 ~ 85% RH		

AC-DC Switching Power Supply 100W SF100 Series

environment	Storage Temperature	-40 ~ +105	
	Temperature coefficient	0.03%/ (0~ 50℃)	
	Vibration coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes	
Safety and EMC (Note:3)	Safety Standard	IEC60950,EN60950,UL60950	
	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	EN55011, EN55022 (CISPR22) CLASS B (Note: See the application circuit for details)	
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV (Note: See the application circuit for details)	
	RF	IEC/EN 61000-4-3 level 4 lev3	
	EFT	IEC/EN 61000-4-4 level 4 4kV (Note: See the application circuit for details)	
	SURGE	IEC/EN 61000-4-5 level 4 2kV	
Others	MTBF	165K hrs min. MIL-HDBK-217F(25)	
Others	Dimension	127*76*30mm (L*W*H)	
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature		
	 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 con re-confirmed that it still meets EMC d	nponent which will be installed into a final equipment.The final equipment must b lirectives	

Dimension



Pin de	Pin definition		
Α	AC(L)		
В	AC(N)		
С	FG		
1	NC		
2-7	-Vo		
8-13	+ V ₀		

	Pin pitch	Pintype
Pin(1-12)	3.96	Molex5273-13pin
Pin(A-C)	7.92	Molex5273-3pin

Block diagram

