



Key features

- Universal input: 90-265 VAC, 50/60 Hz
- Low ripple and noise
- Over load protection ,short circuit protection and over temperature protection
- High efficiency, high density, up to 91%.
- Industrial design.
- Lower power, RoSH
- Ultra-thin design, height is only 42mm.
- 3 Years product warranty

SDM120 series --- is a guide rail type switching power supply offered by Zhongyiguang. The output power of this series module power supply is 60 W, with high efficiency, low loss, PCB adopts two-sided process design of material FR4. track installation. It features high reliability, high power density, convenient installation, good anti-interference ability and other characteristics, are widely used in industrial automation the industrial control, and other related industries.

Electronics specifications

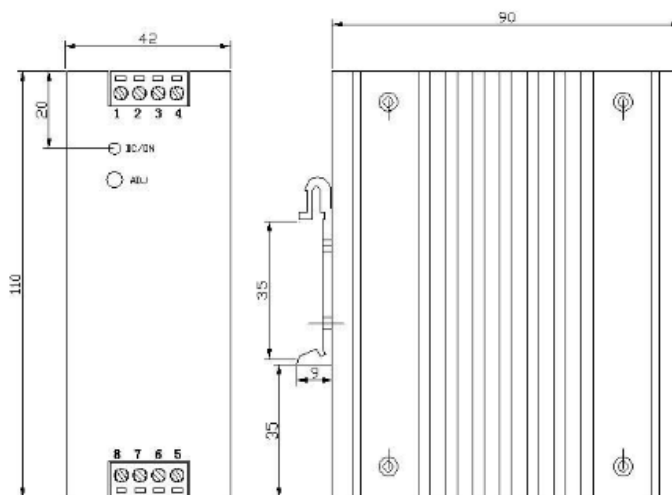
Model	Input voltage	Output power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
SDM120-S12	90-265Vac	120	12	10	100	87
SDM120-S15	90-265Vac	120	15	8	100	88
SDM120-S24	90-265Vac	120	24	5	100	88
SDM120-S36	90-265Vac	120	36	3.4	100	89
SDM120-S48	90-265Vac	120	48	2.5	100	90

General characteristics

Output	Output voltage accuracy	±5.0%		
	Source effect	±2.0%		
	Load effect	±1.0%		
	Starting time (TYP)	±1.0%		
	Output hold time (TYP)	10ms/230VAC	at full load	
	Input voltage range	30ms/230VAC	at full load	
Input	Input frequency range	90 ~ 265VAC		
	Input current (TYP)	47 ~ 63Hz		
	Output voltage accuracy	2.7 A / 115VAC	1.5 A / 230VAC	
	Source effect	Cold boot	40 A / 230 VAC	
	Leakage current (TYP)	< 1mA at 230VAC/50Hz		
Protection	Over-voltage would be lock;			

	Over temperature protection, automatic recovery after troubleshooting; Over-current protection, automatic recovery after troubleshooting.	
Work 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	Confirmed to 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	Confirmed to EN55011, EN55022 (CISPR22) class B
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV (Note: See the application circuit for details)
	RF	IEC/EN 61000-4-3 (Note: See the application circuit for details)
	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	≥100K hrs min. MIL-HDBK-217F(25)
	Dimension	110X98X42mm (L*W*H)
	Weight	420g
	Packing	360*300*250mm
notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature	
	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	

Dimension



Pin	Function
1	-V
2	-V
3	+V
4	+V
5	AC
6	AC
7	NC
8	FG