



RoHS

Key features

- Universal input: 90-265 VAC, 50/60 Hz
- Low ripple and noise
- Over load, short circuit and over temperature protection
- High efficiency, high density, up to 89%.
- Industrial design.
- Lower power, RoSH
- Ultra-thin design, height is only 42mm.
- 3 Years product warranty

SDM60 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

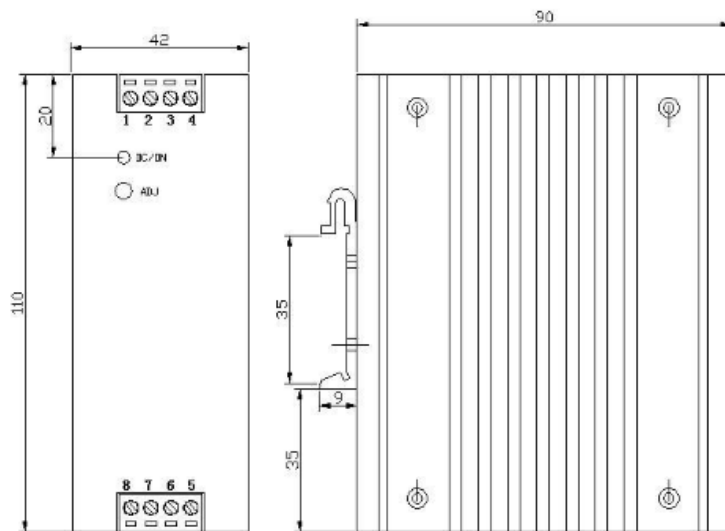
Model	Input voltage	Output power(W)	Output voltage(V)	Output current (A)	Ripple(mv)	Efficiency (%)
SDM60-S05	90-265Vac	50	5.0	10	150	79
SDM60-S12	90-265Vac	60	12	5	100	87
SDM60-S24	90-265Vac	60	24	2.50	100	88
SDM60-S36	90-265Vac	60	24	1.60	100	89
SDM60-S48	90-265Vac	60	48	1.25	100	89

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.	
	Operating Temperature	—40 ~ +70 °C (According to the output load derating)
	Humidity	85% .RH max

Work environment	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	Conform 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	Conform 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)
Others	SURGE	IEC/EN 61000-4-5 level 4 2kV
	MTBF	≥100K hrs min. MIL-HDBK-217F(25)
	Dimension	90X95X42mm (L*W*H)
	Operating Temperature	300g
Notes	Humidity	360*300*250mm
	<p>1. 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.</p> <p>1. Ripple & noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor</p> <p>2. 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</p>	

Dimension



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

Block diagram

