ZHONGYIGUANG GUANGZHOU TECHNOLOGY LTD,.

AC-DC Switching Power Supply

60W SD60 Series

CE

RoHS

Key features

- Universal input :85~ 265 VAC, 50/60 Hz
- Low ripple and noise
- Output overload protection ,short circuit protection; Remote control turn-off function
- High efficiency, high density, fine quality and low price
- Industrial product design, standard track installation
- Lower power, RoHS , no-load loss< 0.75W
- 100% test and work
- 3 years product warranty

SD60 series --- is a guide rail type switching power supply offered by Zhongyiguang. The output power of this series module power supply is 60W, with extremely low no-load loss (< 0.75W), low leakage current,which is only 1mA, small size (92.3*76.3*60.5mm) and isolation voltage up to 1.5kv,etc. The product is safe and reliable, which has a good EMC. EMC and Safety specifications meet many related standards ,such as IEC/EN61000-4, CISPR22/EN55022, UL60950/EN60950/EN60601. The series products are commonly used in industrial control and railway industry industries. If applied to a relatively harsh environment electromagnetic compatibility, it must be referenced the application circuit.

Electrical specifications

Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
SD60-S05	85-265Vac	40	5.0	8	50	75
SD60-S12	85-265Vac	54	12	4.5	50	85
SD60-S24	85-265Vac	60	24	2.5	50	86
SD60-S48	85-265Vac	60	48	1.25	50	87

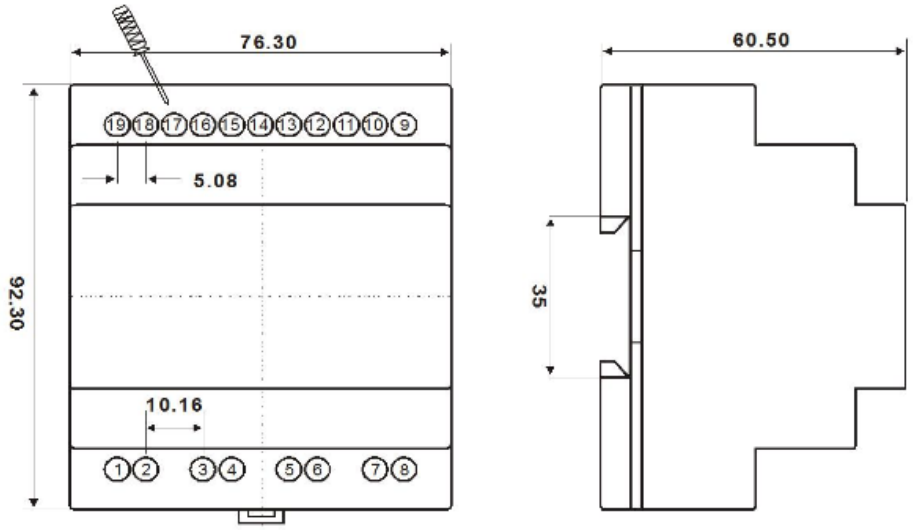
General features

Output	Output voltage accuracy	±2.0%
	Source effect	±1.0%
	Load effect	±1.0%
	Starting time (TYP)	10ms/230VAC 30ms/115VAC at full load
	Output hold time(TYP)	40ms/230VAC 15ms/115VAC at full load
Input	Input voltage range	85 ~ 265VAC 100 ~ 370VDC
	Input frequency range	47 ~ 63Hz
	Input current (TYP)	1.9 A / 115VAC 0.96 A / 230VAC
	Inrush current(TYP)	Cold boot 30 A / 115 VAC 60 A / 230 VAC
	Leakage current (TYP)	< 1mA at 230VAC/50Hz
Protection	Over-current and short circuit protection, automatic recovery after troubleshooting	

Work environment	Operating Temperature	—40 ~ +70 ℃ (≧50℃, According to 0.75W/℃ derating)
	Humidity	85% .RH max
	Storage Temperature	–40 ~ +85, 10 ~ 95% RH
	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	Conform to UL1012
	I/O-Isolation voltage	I/P-O/P:1.5KVAC(min)
	Isolation resistance	I/P-O/P>100M Ohms/500VDC 25℃ 70% RH
	EMI / RFI conducted	Conform to EN55011, EN55022 (CISPR22)
	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	200K hrs min. MIL-HDBK-217F(25)
	Dimension	92.3*76.3*60.5mm
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

Use a screwdriver to adjust voltage



Pin	Definition	
1	AC(L)	AC input
2	AC(N)	AC input
9/10/11	+V	Output(+)
12/13/14	-V	Output(-)
15	+Ctr	Telecontrol(+)
16	-Ctr	Telecontrol(-)
17	ADJ	Voltage regulate
19	LED	Indicate

Block diagram