



RoHS

Key features

- Universal input:90-265 VAC, 50/60 Hz
- Low ripple and noise
- Output overload protection ,short circuit protection
- High efficiency, high density, fine quality and low price
- Industrial design
- Lower power, RoHS
- 100% test and work
- 3 years product warranty

SM150 series --- a metal mesh switching power supply offered by Zhongyiguang. The output power of this series module power supply is 150W, with low leakage current,which is only 0.5mA, the size is (159*99*38mm) 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 industrial, office and civil industries, such as applied to a relatively harsh environment electromagnetic compatibility must refer to the application circuit.

Electrical specifications

Model	Input voltage	Output Power(W)	Output voltage(V)	Output current(A)	Ripple(mv)	Efficiency (%)
SM150-S12	85 ~ 264VAC	150	12	12.5	100	84
SM150-S15	85 ~ 264VAC	150	15	10	100	85
SM150-S24	85 ~ 264VAC	150	24	6.25	150	87
SM150-S36	85 ~ 264VAC	150	36	4.16	150	88
SM150-S48	85 ~ 264VAC	150	48	3.12	150	88

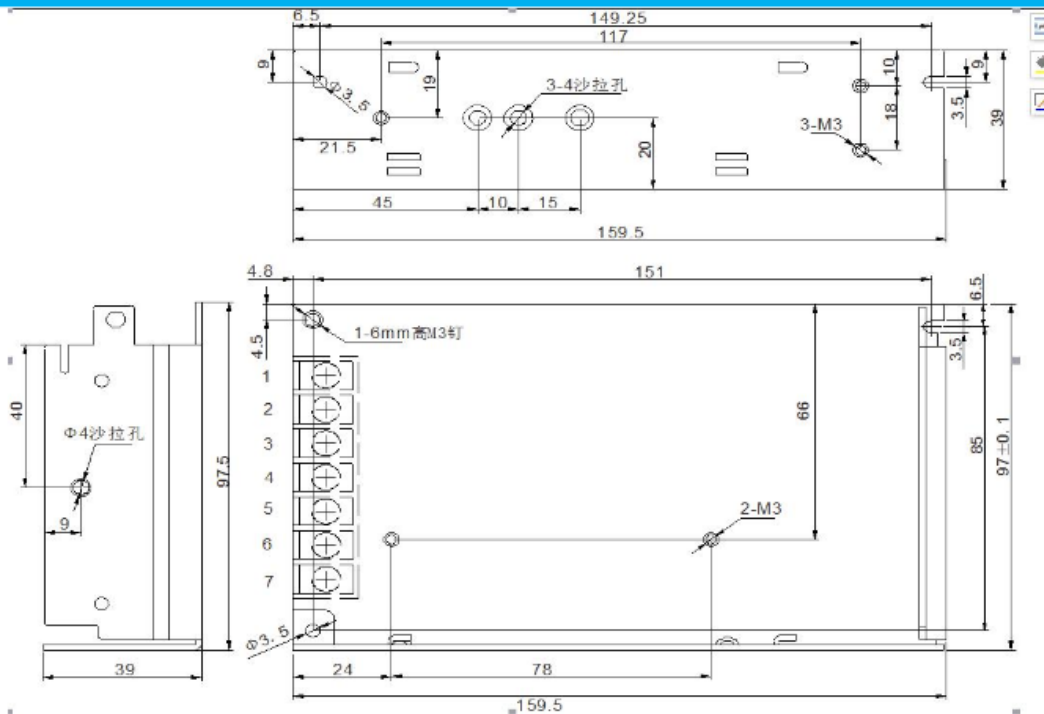
General features

Output	Output voltage accuracy	±2.0% @100%load
	Source effect	±1.0% @100%load
	Load effect	±1.0% @10-100%load
	Starting time (TYP)	50ms/230VAC @100%load
	Output hold time (TYP)	30ms/230VAC @100% load
Input	Input voltage range	85 ~ 264VAC 80-370VDC
	Input frequency range	47 ~ 63Hz, 440Hzmax
	Input current(TYP)	1.2A / 230VAC
	Inrush current (TYP)	Cold boot 60 A / 230 VAC
	Leakage current (TYP)	< 0.5mA at 230VAC/50Hz
Protection	Over-current protection: 110%--120% load, automatic recovery after troubleshooting; Over-temperature and short circuit protection, automatic recovery after troubleshooting.	
	Operating Temperature	—40 ~ +70 °C (According to the output load derating)
	Humidity	10 ~ 85% RH



Work environment	Storage Temperature	-40 ~ +105
	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	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 A
	ESD	IEC/EN 61000-4-2 level 4 8kV/15kV
	RF	IEC/EN 61000-4-3 level 4
	EFT	IEC/EN 61000-4-4 level 4 4kV
	SURGE	IEC/EN 61000-4-5 level 4 2kV
Others	MTBF	165K hrs min. MIL-HDBK-217F(25)
	Dimension	159*99*38mm (L*W*H)
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	AC (L)
2	AC (N)
3	FG
45	-Vo
67	+Vo