



IP67 Waterproof Power Supply DC 12V 1.5A, with epoxy encapsulated

Model: SD1812

Main Features:

- ✧ Compact size: 50x50x25 mm, easy to fit;
- ✧ Double insulation for enhanced safety;
- ✧ Short Circuit/Over-Voltage/Over-Current Protection;
- ✧ Effortless installation: AC cord, DC plug and mounting holes.

Input

Input Range	90-264 VAC, 47-63 Hz
AC Current	≤ 0.4 A
Efficiency	≥ 80%
No Load Consumption	≤ 0.3 W
Leakage Current	< 0.25 mA

Output

Output Voltage	12 VDC (± 5%)
Rated Current	1.5 A
Line Regulation	± 3%
Load Regulation	± 5%
Ripple & Noise	≤ 200 mVp-p
Setup, Rise, Hold-up time	3s, 40ms, 5ms

Environment

Operating Temperature	-20°C to 50°C
Operating Humidity	RH 10% to 96% (non-condensing)
Storage Temperature	-40°C to 80°C
Storage Humidity	RH 5% to 96% (non-condensing)
Altitude	-50m to 5000m (AMSL)

Safety

Protection	Over Current / Over Voltage / Short Circuit / Surge Protection(1 kV)
Dielectric Strength(Hi-Pot)	3000 VAC / 5 mA / 1 min
Insulation Resistance	≥ 100 MΩ at 500 VDC
EMI Standard	EN55032 Class B

Reliability

Vibration	5~10~200~500 Hz sweep at shift gears for 20 mins for each axis(X, Y, Z)
Drop Test	total twice on random surface, drop height=1m, drop onto the cement surface
Steel Ball Impact Test	Ball(500g, Φ=50mm, free fall height=1.3m) impacts top &bottom surface, no crack
MTBF	≥ 50,000 hours at 25°C with full load

General

Dimension	50x50x25 mm (LxWxH)
Net Weight	110 g
Gross Weight	120 g

Diagram

