



1. About: -

EPOW-053 is a 5V 3W, PCB mount, isolated SMPS power supply for electronic equipment. It is a compact, efficient, isolated power supply capable of withstanding humidity and vibration while supplying steady noise free power.

2. Key Features: -

- a. Universal AC/DC Power Supply Input.
- b. Compact form factor.
- c. Class 2 - Industrial Grade Isolation.
- d. Output short circuit and overload protection.
- e. High efficiency switching power supply.
- f. Low output ripple.
- g. Best value for money solution.



3. Areas of Application

- a. IOT Devices (Internet of things).
- b. Home Automation.
- c. Factory Automation.
- d. Commercial Electronics.
- e. Smart Appliances.

4. Safety & Protection

Isolation Class	Class 2 (Industrial Grade 2500V)
Output Short Circuit	Output voltage drops to zero. Normal operation will resume upon the removal of short circuit.
Output Overload	Automatic thermal shutdown. Operation resumes on device cooldown

**5. Operating Environment**

Operating Temperature	0 – 50 °C (32 – 122 °F)
Storage Temperature	-20 – 75 °C (-4 – 167 °F)
Relative Humidity	5 – 95 % Non-Condensing
Cooling	Natural Convection & Radiation
Elevation	< 2000m above Sea Level
Vibration Resistance	10 - 500Hz, 2.5G 10min./1cycle, period for 60min. each along X, Y, Z axes
Soldering	275 °C, <10s

6. Technical Specifications

At Sea Level at 25 °C

Output Voltage	5V +/- 0.1V (dc)
Output Current	>600mA (dc)
Input voltage	85 – 265 Vac 50/ 60 Hz 120 – 375 Vdc
Input Current	< 200 mA (ac)
Input Inrush (Surge) Current	< 10 A
Efficiency at Rated load	Approx. 70%
Output Ripple	< 50mV peak – peak
Line Regulation	+/- 0.5%
Load Regulation	+/- 0.5%

7. Weight

< 25 grams.



8. Dimensions

