

Switching Mode Power Supply 12V/2.5A with battery backup

[Model No : SMPS12B – 2.5A (BB)]



Features:

- . Latest Top switch based design.
- . Maximum output power of 30W.
- . High efficiency, High reliability, Low cost.
- . AC input voltage range 180V ~ 265V AC.
- . Built-in EMI filter.
- . Low Ripple and Noise.
- . Soft start circuit to limit the AC inrush current.
- . Screw type input and output connectors.
- . Compact, Light weight.
- . Momentary output short circuit protection, Over load protection.
- . 100% Full load burn-in test.
- . Built -in battery charging provision.
- . Low battery cut off provision, to prevent the battery drain condition.
- . Constant voltage charging for Battery.

Specifications:

. Input Characteristics:

Input Voltage	180V – 265 VAC
Input Frequency	50 Hz.
Input Connector	3-pin screw type connector
Input Protections	a) 3Amp, 20mm fast blow, Glass fuse. b) MOV for input over voltage protection.
Filters	EMI/RFI.

. Output Characteristics:

Output Voltage	12 VDC
Output Current	2.5A
Output Power	30 W
Output Connector	2-pin screw type connector.
Battery connector	2-pin screw type connector.
Visible Indications	Output - Red color LED.
Low Battery cut off	10V
Output Protections	Over Load Protection
Line Regulation	< + / - 0.5%
Load Regulation	< + / - 0.5%
Ripple and Noise	< + / - 1% P-P.

. Environmental Characteristics:

Operating Temperature	55 C at Full Load and 70 C at 60% load.
Cooling	By free air convection
Relative Humidity	95% NC.

. General Characteristics

Efficiency	70%
Hold Time	> 20mSec on full load.
Dimension (L X H X D) mm	(190 X 255 X 98)
Mounting	Wall & Panel mounting.

Note:

- 1) All these parameters are specified at 230V AC input.
- 2) For continuous improvement, specifications are subject to change.