

# **SMPS 12V/10A WITH BATTERY BACKUP**

**Model No: SMPS12B - 10A**



## **Features:**

- . Latest state-of-the-art current mode PWM Controller and MOSFET based design.
- . Maximum output power of 120W.
- . 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 Voltage protection.
- . 100% Full load burn-in test.
- . Built -in battery charging provision.
- . Low battery cut off provision, to prevent the battery drain condition.
- . Constant current charging for Battery.

## Specifications:

### . Input Characteristics

<b>Input Voltage</b>	<b>180V – 265 VAC</b>
<b>Input Frequency</b>	<b>50 Hz.</b>
<b>Input Connector</b>	<b>3-pin screw type connector</b>
<b>Indications</b>	<b>1) Input Ok – Yellow color LED.</b>
<b>Input Protections</b>	<b>a) 4 Amp, 20mm fast blow, Glass fuse. b) MOV for input over voltage protection.</b>
<b>Filters</b>	<b>EMI/RFI.</b>

### . Output Characteristics

<b>Output Voltage</b>	<b>12 VDC</b>
<b>Output Current</b>	<b>10 A</b>
<b>Output Power</b>	<b>120 W</b>
<b>Output Connector</b>	<b>4-pin screw type connector.</b>
<b>Battery connector</b>	<b>2-pin screw type connector.</b>
<b>Visible Indications</b>	<b>Ac power - Yellow color LED. Output - Green color LED. Battery - Blue color LED. Low Battery- Red color LED.</b>
<b>Low Battery cut off</b>	<b>10V</b>
<b>Output Protections</b>	<b>Over Voltage Protection</b>
<b>Line Regulation</b>	<b>&lt; + / - 0.5%</b>
<b>Load Regulation</b>	<b>&lt; + / - 0.5%</b>
<b>Ripple and Noise</b>	<b>&lt; + / - 1% P-P.</b>

### . Environmental Characteristics

<b>Operating Temperature</b>	<b>55 C at Full Load and 70 C at 60% load.</b>
<b>Cooling</b>	<b>Forced cooling</b>
<b>Relative Humidity</b>	<b>95% NC.</b>

### . General Characteristics

<b>Efficiency</b>	<b>70%</b>
<b>Hold Time</b>	<b>&gt; 20mSec on full load.</b>
<b>Dimension (L X H X D) mm</b>	<b>(310 * 310 * 98 )</b>
<b>Mounting</b>	<b>Wall Mounting</b>

#### Note:

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