

# Switching Mode Power Supply 12V/2A

[ Model No: SMPS12-2A ]



## Features:

- . Latest Top Switch based design.
- . Maximum output power of 24W.
- . 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.
- . Compact, Light weight.
- . Momentary output short circuit protection, Over load protection.
- . 100% Full load burn-in test.

## 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 Core cable I/P.</b>   |
| <b>Indications</b>       |  |
| <b>Input Protections</b> | <b>a) 3 Amp, 20mm fast blow, Glass fuse.<br/>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>2 A</b>                           |
| <b>Output Power</b>       | <b>24 W</b>                          |
| <b>Output Connector</b>   | <b>2 Core cable o/p.</b>             |
| <b>Output Indications</b> | <b>a) Output Ok – Red color LED.</b> |
| <b>Output Protections</b> | <b>Over Load 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>By free air convection</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>( 131 X 96 X 50 )</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.