



Micro Power

SWITCHING MODE POWER SUPPLY

Sanstar Microsystems Private Limited

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DATA SHEET

Model No: SSM1502

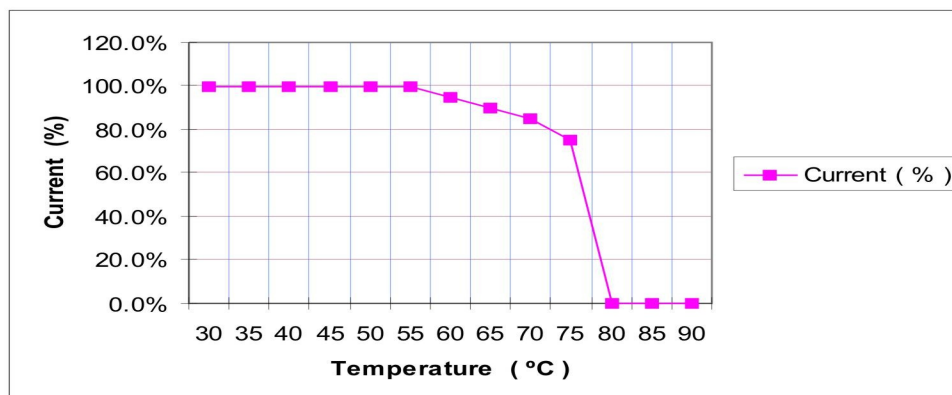
Ordering Code: SSMUB1502

SMPS Cum Battery Charger 13.8V@ 2A.

Features:

- Power Integrated (PI device) TOP switch based Off-Line Switcher.
- Maximum Output Power 30W.
- High efficiency, High reliability and Low cost.
- Universal AC input range 90V ~ 265VAC.
- Complete isolation between input & output.
- Frequency jittering reduces EMI and EMI filtering costs.
- Soft start circuit to limit the AC inrush current.
- Screw type input and output connecting terminals.
- Compact, Light Weight, Metal Chassis, Panel Mounting.
- Hysteretic thermal shutdown for automatic fault recovery.
- 100% Full load burn-in Test.
- Lower cut-off voltage (Optional Factory adjustable).
- Line feed forward with maximum duty cycle (DC max.) reduction rejects line ripple and limits DC max. at high line.

Derating Curve for SMPS cum Battery Charger 13.8V 2A.



Specifications:

* Input Characteristics

Input Voltage	90V - 265V AC.
Input Frequency	45 - 60 Hz.
Input Connector	3-pin screw type connector.
Input Protection	Glass Fuse 2 Amp, 20mm fast blow.
Filters	EMI/RFI.

* Output Characteristics

Output Voltage	13.8 VDC (Max.15V).
Output Current	2 A (Total: BC+SMPS).
Max. Output Power	30 W.
Output Connector	2-pin screw type connector for each terminal of SMPS & BC.
Output Indication	Output Ok - Green colour LED.
Output Protections	1.Lower Cut-off Voltage for long battery life. 2.Over Temperature Protection (OT) at 100°C.
Line Regulation	< + / - 0.5%.
Load Regulation	< + / - 1.5%.
Ripple and Noise	< + / -2.5% P-P.

* Environmental Characteristics

Operating Temperature	55 °C at Full Load and 70°C at 60% load.
Maximum Temperature Rise	50°C
Cooling	By free air convection.
Relative Humidity	95% NC.

* General Characteristics

Efficiency	80%.
Hold Time	> 20mSec on full load.
Dimension (L X W X H) mm	150 X 80 X 55.
Mounting	Panel Mounting (3 Ways).

Note:

- 1) All these parameters are specified at 230V AC input.
- 2) For continuous improvement, specifications are subject to change without prior intimation.