

  
**Micro Power**  
**SWITCHING MODE POWER SUPPLY**  
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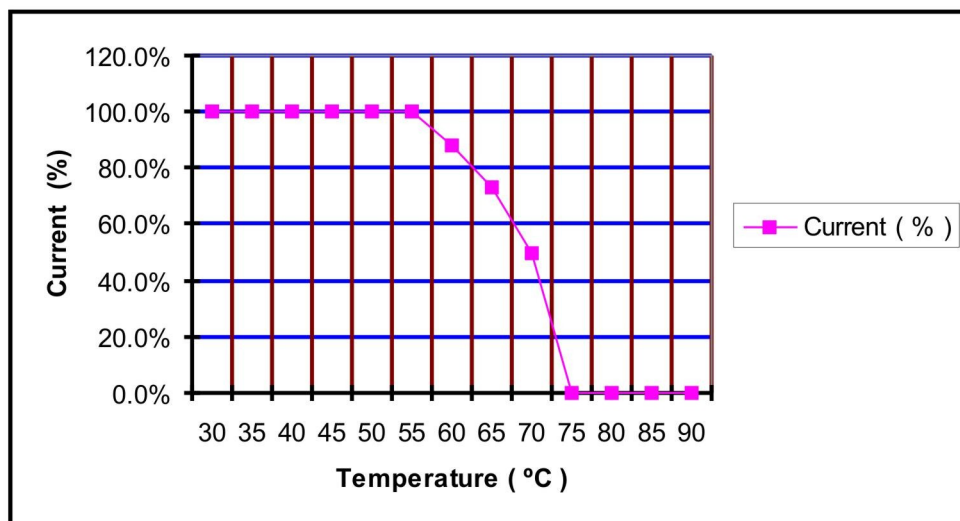
**DATA SHEET**  
**Model No: SSM100**  
**Ordering Code: SSMCB13.510**

**SMPS Cum Battery Charger 13.5V 10A.**

**Features:**

- Latest state of -the -art current mode PWM Controller and MOSFET based design.
- Maximum output power of 150W.
- High efficiency, High reliability, Low cost.
- AC input voltage range 180V ~ 265VAC.
- Built-in EMI filter.
- Low Ripple and Noise.
- Soft start circuit to limit the AC inrush current.
- Screw type output connector.
- Compact, light weight.
- Momentary output Short circuit protection, Reverse Battery Protection.
- 100% Full load burn-in test.

**Derating Curve for SMPS Cum Battery Charger 13.5V 10A.**



## Specifications:

### \* Input Characteristics

Input Voltage	180V – 265 VAC.
Input Frequency	45 – 60 Hz.
Input Connector	3 Pin power cord.
Input Protections	a) 3 Amp, 20mm fast blow, Glass fuse. b) MOV, for input over voltage protection.
Filters	EMI/RFI.

### \* Output Characteristics

Output Voltage	13.5 VDC.
Output Current	a) For Radio – 6A. b) For Battery Charging – 4A.
Max. Output Power	150 W.
Output Connector	4-pin screw type connector for Radio & Battery charging.
Output Indications	a) Output Ok – Green colour LED. b) Low Battery – Red colour LED. c) Battery ON - Yellow colour LED.
Output Protection	12A, 32mm fast blow, Glass fuse for Reverse Battery 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.
Maximum Temperature Rise	50°C.
Cooling	By free air convection.
Relative Humidity	95% NC.

### \* General Characteristics

Efficiency	70%.
Hold Time	> 20mSec on full load.
Dimension (L X W X H) mm	185 X 150 X 75.
Mounting	Table Top.

Note:

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