



**Micro Power**

**SWITCHING MODE POWER SUPPLY**

**Sanstar Microsystems Private Limited**

EL-15, Electronic Zone, M.I.D.C,  
Hingna Road, Nagpur 440-016 (India).

Mobile: 9823315380,  
9765557595, 9765557597.

Telefax: +91 (07104) 232292, 235216.

E-mail: [sales@sanstarindia.com](mailto:sales@sanstarindia.com).

## DATA SHEET

**Model No: SSM2420FB**

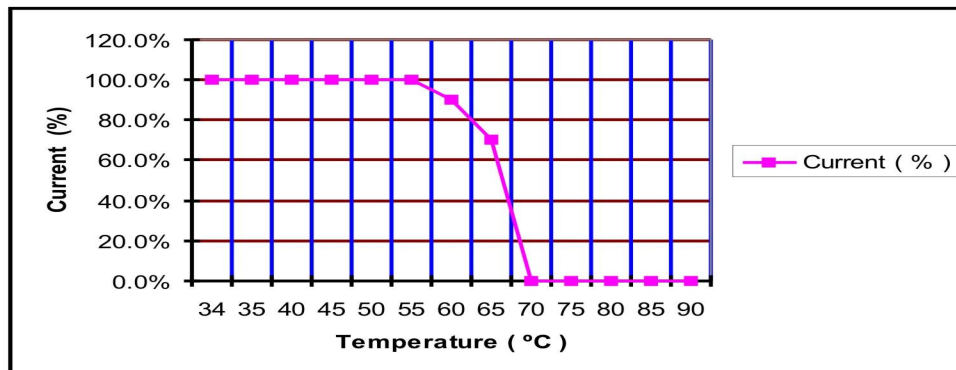
**Ordering Code: SSMCB3020FB**

### **SMPS Based Battery Charger 24-30V 20A (Float -Boost).**

#### **Features:**

- Latest state of -the -art current mode PWM Controller and MOSFET based design.
- Maximum output power of 600W.
- 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 input and output connectors.
- Compact, light weight.
- Momentary output short circuit protection, Over voltage and Over Temperature protection.
- 100% Full load burn-in test.
- Potentiometer to adjust the voltages in Float and Boost mode.

#### **Derating Curve for Battery Charger 24-30V 20A.**



## Specifications:

### \* Input Characteristics

Input Voltage	180V - 265V AC.
Input Frequency	45 - 60 Hz
Input Connector	3-pin screw type connector.
Indication	Input Ok - Yellow colour LED.
Input Protections	a) 5 Amp, 20mm fast blow, Glass fuse. b) MOV, for input over voltage protection.
Filters	EMI/RFI.

### \* Output Characteristics

Output Voltage range in Float mode	24 - 27 VDC.
Output Voltage range in Boost mode	27 - 30 VDC.
Output Current	20 A Max.
Max. Output Power	600 W.
Output Connectors	Two 3-pin screw type connectors.
Output Indications	a) Output Ok - Green colour LED. b) OVP - Red colour LED. c) Float - Green colour LED. d) Boost - Red colour LED.
Output Switches	a) Switch for Auto/Manual (Toggle). b) Switch for Float/ Boost (Toggle).
Output Protection	Over Voltage Protection.
Line Regulation	< +/- 0.5%.
Load Regulation	< +/- 0.5%.
Ripple and Noise	< +/- 1% P-P.

### \* Environmental Characteristics

Operating Temperature	50 °C at Full Load and 70°C at 60% load.
Maximum Temperature Rise	50°C.
Cooling	Forced Cooling.
Relative Humidity	95% NC.

### \* General Characteristics

Efficiency	70%.
Hold Time	> 20mSec on full load.
Dimension (L X W X H) mm	235 X 130 X 100.
Mounting	Panel Mounting.

Note:

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