



# Technical Features

## Battery Charger

Model	BC12-5A-SMPS BC24-5A-SMPS
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### INPUT

AC INPUT VOLTAGE	220VAC, 1 $\emptyset$
AC INPUT WORKING RANGE	170VAC TO 270VAC
FREQUENCY	50Hz $\pm$ 6%
INRUSH CURRENT	LIMITED BY NTC THERMISTER
SURGE VOLTAGE PROTECTION	MOV
EMI/EMC	EMI-RFI FILTER AT INPUT

### OUTPUT :

VOLTAGE & CURRENT	12VDC / 24VDC (user selectable according to battery) 5 A Max.
Static regulation	$\pm$ 1 %
RMS CURRENT RIPPLE	$\leq$ 5%
CHARGING PROFILE	MULTI STEPS CHARGING (PLEASE SEE TABLE-1)

### INDICATION & ALARM :

LCD DISPLAY PARAMETERS	OUTPUT VOLTAGE
	OUTPUT CURRENT
	STEP NUMBER
	SYSTEM VOLTAGE
	CHARGER STATUS
BUZZER	CHARGE FINISH
<b>PROTECTIONS :</b>	BATTERY REVERSE PROTECTION.
	SHORT CIRCUIT PROTECTION.
	SPARK PREVENTION WHILE CONNECTING BATTERY CLIPS.
	AUTOMATIC SHUT OFF WHEN BATTERY IS DISCONNECTED.
	AC INPUT FUSE.

### GENERAL

NUMBER OF BATTERY	MAX. 2 NO OF 12V
CONTROL	HIGH FREQUENCY PWM
COOLING SYSTEM	fan cooled
OPERATING TEMPERATURE	0°C TO 50°C
RELATIVE HUMIDITY	95% MAXIMUM, NON CONDENSING
ALTITUDE	1500MTR AMSL
ENCLOSURE	IP20
WEIGHT	2.0KG
DIMENSIONS( H x W x D )	135mm X 130mm X 270mm

We are committed to continuous development of our products, the specification are subject to change without notice.

**TABLE-1**

<b>FOR 12V SYSTEM</b>	
	<b>1<sup>st</sup> STEP (BOOST/CHARGE)</b>
CHARGING VOLTAGE	MAX. 15V
CHARGING CURRENT	2A/4A/6A/8A
TRANSITION CONDITION	$V_{BATT} = 15.0V$

<b>FOR 24V SYSTEM</b>	
	<b>1<sup>st</sup> STEP (BOOST/CHARGE)</b>
CHARGING VOLTAGE	MAX. 30.0V
CHARGING CURRENT	2A/4A/6A/8A
TRANSITION CONDITION	$V_{BATT} = 30.0V$

- IN FLOAT MODE, IF  $V_{BATT} < 12.8V / 25.6V$ , CHARGING PROCESS WILL START AGAIN.