Technical Features

Battery Charger

Model	BC12-10A-SMPS BC24-10A-SMPS
INPUT	
AC INPUT VOLTAGE	220VAC, 1Ø
AC INPUT WORKING RANGE	170VAC TO 270VAC
FREQUENCY	50Hz ± 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)
	10 A Max. (user selectable in steps of 2A)
Static regulation	± 1 %
RMS CURRENT RIPPLE	≤ 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
PROTECTIONS :	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

TABLE-1

FOR 12V SYSTEM	
	2nd STEP (FLOAT)
CHARGING VOLTAGE	MAX. 13.5V
CHARGING CURRENT	MAX. 0.8A
TRANSITION CONDITION	

FOR 24V SYSTEM	
	2nd STEP (FLOAT)
CHARGING VOLTAGE	MAX. 27.0V
CHARGING CURRENT	MAX. 0.8A
TRANSITION CONDITION	

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