

BATTERY CHARGER 120W



FEATURES

- Single Phase Input
- High reliability
- Built In Transient protector & EMI filter
- Low ripple & noise
- Cooling by free air convection (Internal Fan for 12V model with Automatic fan control)
- Current Limit : Yes
- LED Indications : Input OK, Float, Boost, Battery Reverse
- Low cost
- Compact



While connecting the battery keep charger powered OFF.

INPUT	230V AC, +/-15%, 47-63Hz	
ISOLATION	Input – Output : 3KVAC, 1 minute Input – Earth : 2KVAC, 1 minute Output – Earth : 500VAC, 1 minute	
EFFICIENCY	70 ~ 75% with input 230VAC & full load at output.	
INDICATIONS	MAINS ON : Green LED	FLOAT ON : Green LED
	BOOST ON : Red LED	BATTERY REVERSE POLARITY : Red LED
	FUSE FAIL : Red LED	
PROTECTIONS	12V / 24V / 36V	48V
	Short Circuit Auto Recovery Type Overload Protection Auto Recovery Type Battery Reverse Polarity through relay	Short Circuit Fuse protection Overload Protection Auto Recovery Type Battery Reverse through Fuse protection
BATTERY DRAIN DURING CHARGER OFF STATE	< 20µA	< 50µA
CHARGER ON RELAY	1 C/O Contact Rated for 5A@230VAC/24VDC (Potential free contact)	
AMBIENT	OPERATING : 0 ~ 50°C, 95% RH	STORAGE : -20°C to 85°C
STORAGE AMBIENT	IS 13252(Part 1):2010/IEC 60950-1:2005	
SAFETY STANDARD	Design refers to EN55022, EN55024	
EMC STANDARD	BIS MARKED	
TERMINATIONS	Screw type, for 2.5mm sq. wire	
MOUNTING	Wall Mount	
WEIGHT (MAX)	950 grams	

ORDERING INFORMATION	INPUT VOLTAGE	AC	DC	OUTPUT			RIPPLE & NOISE	DIMENSIONS (W x H x D) (mm)
	NOMINAL INPUT	230V	230V	VOLTAGE				
	INPUT RANGE	185 ~ 270V	200 ~ 360V	FLOAT	BOOST	BOOST CURRENT		
	INPUT FREQUENCY	47 ~ 63Hz	-					
	INPUT CURRENT (max)	1.5A @230V	0.7A @230V					
	INRUSH CURRENT	32A @230V	23A @230V					
ORDER CODE	BCW-1210 (12V:10A)			13.00V ~ 13.40V	14.20V ~ 14.60V	10.0A	+/-1%	90 x 175 x 126 (Fig. 1)
	BCW-2405 (24V:5.0A)			26.00V ~ 26.60V	28.40V ~ 28.80V	5.0A	+/-1%	65 x 175 x 126 (Fig. 2)
	BCW-3603 (36V:3.3A)			39.30V ~ 39.90V	42.60V ~ 43.20V	3.3A	+/-1%	65 x 175 x 126 (Fig. 2)
	BCW-4802 (48V:2.5A)			52.00V ~ 53.20V	56.80V ~ 57.60V	2.5A	+/-1%	65 x 175 x 126 (Fig. 2)

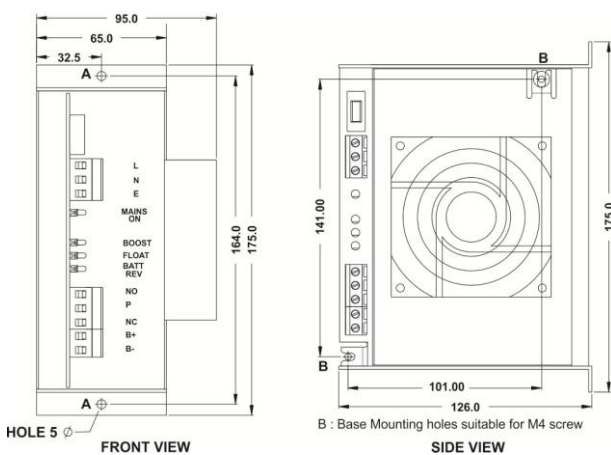


Fig. 1

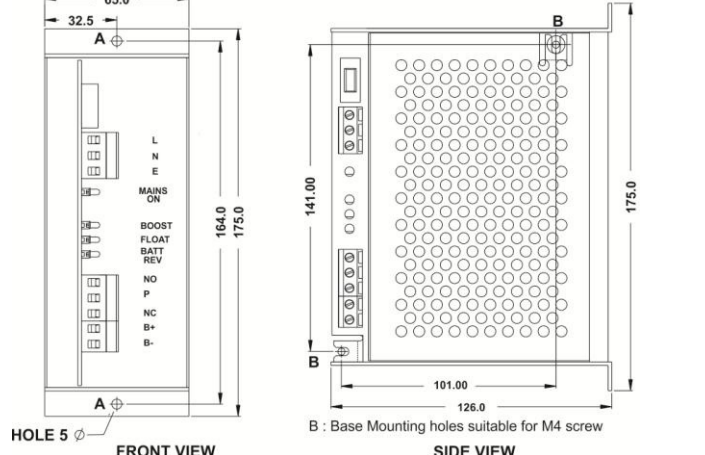


Fig. 2

All dimensions in mm

- Note :
1. All parameters measured at nominal input, rated load and 25°C of ambient temperature unless otherwise specified.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 100µf parallel capacitor.
 3. Ensure clearance of minimum 35mm from adjacent components for proper ventilation.
 4. If charger is switched ON without connecting battery & No load condition, then output voltage will be boost voltage +1V for 10-20 sec.

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