

600W Intelligent Single Output Battery Charger

PB-600 series



Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 2/3/8 stage charging (Note 5)
- Built-in battery rescue function
- Controlled by microprocessor
- Universal AC input / Full range
- Built-in active PFC function PF>0.95
- * Protection: Reverse polarity / Short circuit / Over voltage / Over temperature
- 3 color LED loading indicator
- * Built-in remote ON-OFF control
- Built-in temperature compensation function
- Built-in fan speed control (depends on charging current)
- 3 years warranty



SPECIFICATION

MODEL		PB-600-12	PB-600-24	PB-600-48		
OUTPUT	BOOST CHARGE VOLTAGE Vboost	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE Vfloat	13.8V	27.6V	55.2V		
	RECOMMENDED BATTERY	405 400 411	70 ~ 210AH	35 ~ 105AH		
	CAPACITY(AMP HOURS)(Note 4)	135 ~ 400AH				
	BATTERY TYPE	Open & Sealed Lead Acid		,		
	OUTPUT CURRENT	40A	21A	10.5A		
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load				
INPUT	EFFICIENCY (Typ.)	86%	87%	89%		
	AC CURRENT (Typ.)	6.8A/115VAC 3.4A/230VAC				
	INRUSH CURRENT (Typ.)	25A/115VAC 50A/230VAC				
	LEAKAGE CURRENT	<3.5mA/240VAC				
	OVER VOLTAGE	16~18V	32 ~ 35V	64.5~69.5V		
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, r	ecovers automatically after temperature g	oes down		
	REMOTE CONTROL	Open: Normal work Short: Stop Cha	Open: Normal work Short: Stop Charging			
	LEAKAGE CURRENT FROM BATTERY (Typ.)	1mA				
FUNCTION	FAST CHARGE	2/3/8 stage selectable				
FUNCTION	CHARGER OK	Relay contact (RY15)				
	OUTPUT OK	Relay contact (RY13)				
	TEMPERATURE SENSE	By NTC				
	WORKING TEMP.	-20 ~ +60 $^\circ\mathrm{C}$ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL1012, TUV EN60335-1, EN60335-2-29	9 (except for 48V), EN60950-1(48V only) a	pproved		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-I	FG:0.5KVAC			
EMC						
(Note 3)	EMC EMISSION	Compliance to EN55022 class B (CISPR22), EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024; light industry level, criteria A				
	MTBF					
OTHERS	DIMENSION	230*158*67mm(L*W*H)				
	PACKING	2.2Kg; 6pcs/14.2Kg/1.76CUFT				
NOTE	 All parameters NOT specia The power supply is consid EMC directives. This is Mean Well's sugges 	n for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. ters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ives. an Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. ose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.				



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© Suitable for lead-acid batteries (flooded, Gel and AGM).

© "stage 1"(Pulse) and "stage 2"(Soft Start) provide battery rescue function.

2,3, or 8 stage charging select

(1)The charger features user selectable 2,3, or 8 stage charging. The charging profile is selected by moving the slide switch on the back panel.

Switch	Charging mode	
Right	2 stage charging	
Middle	3 stage charging	
Left	8 stage charging	

(2)Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.

Function Manual

1.Remote Control

The charger can be turned ON/OFF by using the "Remote Control" function.

Between RC+(pin10) and RC-(pin9)	Charging	
SW Open	ON	
SW Short	OFF	



CN100 1 RY13 RY13 2 NC NC RY15 RY15 GND RTH 9 RC- RC+ 10





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2.Charger OK Relay(RY15)

Charger	Between pin5 and pin6(RY15)	
Work normally	ON (Short)	
Failure or protection function activated	OFF (Open)	

Power O Stage 8/3/2	
 12 34 56 738 910	
	+ -
	Battery



3.Output OK Relay (RY13)

1.Bank OK (RY13)

Bank	Between pin1 and pin2(RY13)	Color of LED	
Battery Full	ON (Short)	Green	
Charging	OFF (Open)	Orange	





4. Temperature compensation

Temperature sensor comes along with the charger can be connected to the unit to allow temperature compensation of the charging voltage.

If the sensor is not used, the charger still works normally.



The temperature sensor can either be attached to the battery or placed in its surrounding environment.

Installation Manual

Please refer to the manual of PB-600.