

600W Intelligent Single Output Battery Charger

PB-600 series



MW Search: https://www.meanwell.com/serviceGTIN.aspx

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





UL1012 BS EN/EN62368-1 BS EN/EN60335-1 (for 48V only) (for 12V,24V only)

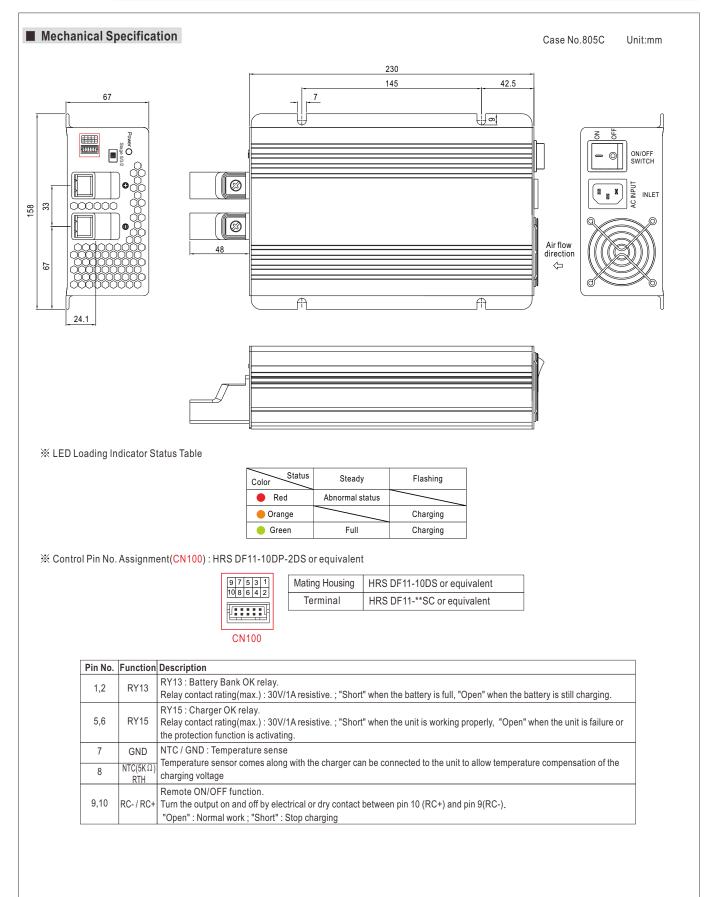
SPECIFICATION

GTIN CODE

MODEL		PB-600-12	PB-600-24	PB-600-48	
	BOOST CHARGE VOLTAGE Vboost	14 4V	28.8V	57.6V	
OUTPUT	FLOAT CHARGE VOLTAGE Vfloat		27.6V	55.2V	
	RECOMMENDED BATTERY				
	CAPACITY(AMP HOURS)(Note 4)	135 ~ 400AH	70 ~ 210AH	35 ~ 105AH	
	BATTERY TYPE	Open & Sealed Lead Acid			
	OUTPUT CURRENT	40A	21A	10.5A	
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load			
	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			
		16~18V	32~35V	64.5~69.5V	
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, r	e-power on to recover		
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
	REMOTE CONTROL	Open: Normal work Short: Stop Char	rging		
	LEAKAGE CURRENT FROM BATTERY (Typ.)				
FUNCTION	FAST CHARGE	2/3/8 stage selectable			
FUNCTION	CHARGER OK	Relay contact (RY15)			
	Ουτρυτ οκ	Relay contact (RY13)			
	TEMPERATURE SENSE	By NTC			
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	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 BS EN/EN60335-1, BS EN/EN60335-2-29 (except for 48V), BS EN/EN62368-1(48V only), EAC TP TC 004 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-F	G:0.5KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH			
(Note 3)	EMC EMISSION	Compliance to BS EN/EN55032 class B (CISPR32), BS EN/EN61000-3-2,-3, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5	5,6,8,11, BS EN/EN55035; light industry le	vel, EAC TP TC 020	
OTHERS	MTBF	650.6K hrs min. Telcordia SR-332 (Bel	lcore); 135.7K hrs min. MIL-HDBK-217	F (25℃)	
	DIMENSION	230*158*67mm(L*W*H)			
	PACKING	2.2Kg; 6pcs/14.2Kg/1.76CUFT			
NOTE	 All parameters NOT special The power supply is conside EMC directives. This is Mean Well's suggests Please choose the "3 stage The ambient temperature does 	pecification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. ally mentioned are measured at 230VAC input, rated load and 25 [°] C of ambient temperature. idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. ge" selection when the charger is used to charge the batteries and power the loads in the same time. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). or : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			
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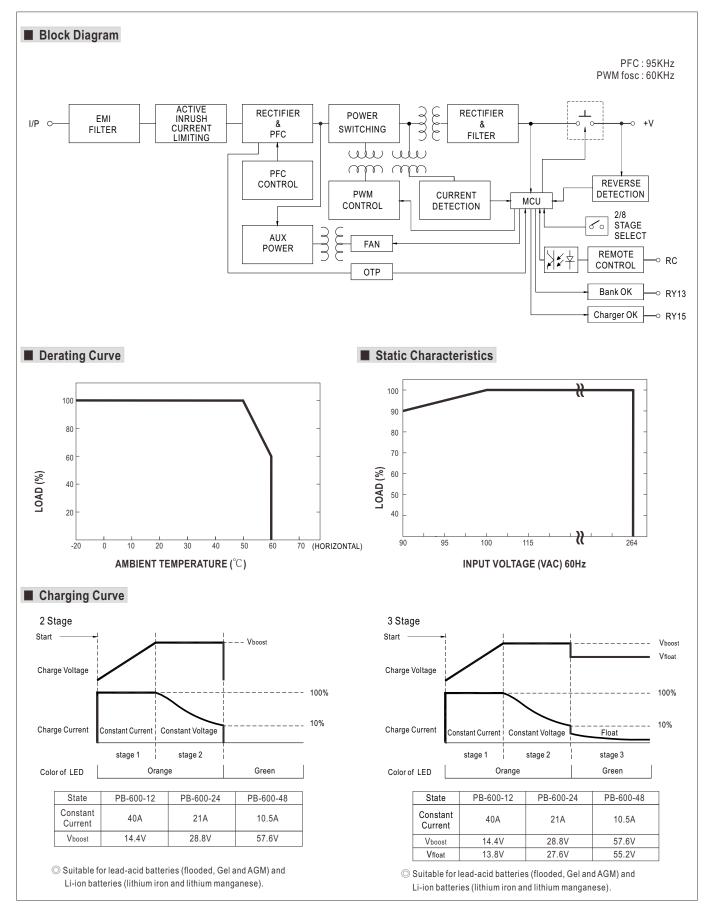


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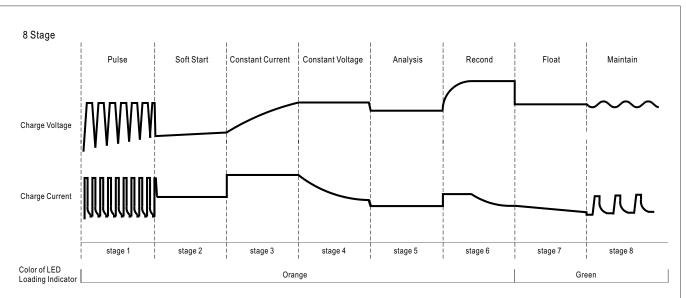
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© Suitable for lead-acid batteries (flooded, Gel and AGM).

© "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	

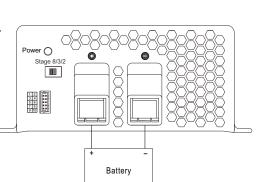
(2)Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.

Function Manual

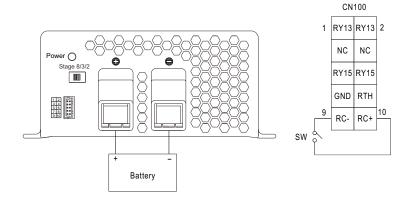
1.Remote Control

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



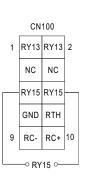


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2.Charger OK Relay(RY15)

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

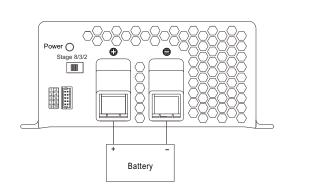
Power O Stage 8/3/2		
12 34 56 78 910		
	+ – Battery	

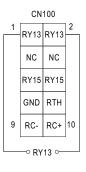


3.Output OK Relay (RY13)

1.Bank OK (RY13)

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

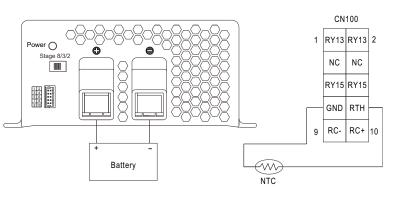




4. Temperature compensation

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.