

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

## 600W Battery Charger Power supply> PB-600



#### ■ 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 EN62368-1



(for 48V only) (for 12V,24V only)



# **SPECIFICATION**

MODEL		PB-600-12	PB-600-24	PB-600-48		
ОИТРИТ	BOOST CHARGE VOLTAGE Vboost	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE Vfloat	13.8V	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		
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load				
NPUT	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				
PROTECTION	OVER VOLTAGE	16 ~ 18V	32 ~ 35V	64.5 ~ 69.5V		
KOTECTION	OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover  Protection type: Shut down o/p voltage, recovers automatically after temperature goes down				
	REMOTE CONTROL	Open: Normal work Short: Stop Charging				
	LEAKAGE CURRENT FROM BATTERY (Typ.)	SM SCHOOL				
	FAST CHARGE	2/3/8 stage selectable				
UNCTION	CHARGER OK	Relay contact (RY15)				
	OUTPUT OK	Relay contact (RY13)				
	TEMPERATURE SENSE	ByNTC				
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	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 EN60335-1, EN60335-2-29 (except for 48V), EN62368-1(48V only), EAC TP TC 004 approved				
AFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
MC	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 EN55032 class B (CISPR32), EN61000-3-2,-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024; light industry level, criteria A, EAC TP TC 020				
	MTBF	135.6K hrs min. MIL-HDBK-217F (25°C	C)			
OTHERS	DIMENSION	230*158*67mm(L*W*H)				
	PACKING	2.2Kg; 6pcs/14.2Kg/1.76CUFT				
OTF	Modification for charger spe	cification may be required for different battery specification.				

### NOTE

- Modification for charger specification may be required for different battery specification.
   All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
   The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives
- 4. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.
- 5. Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.
- 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

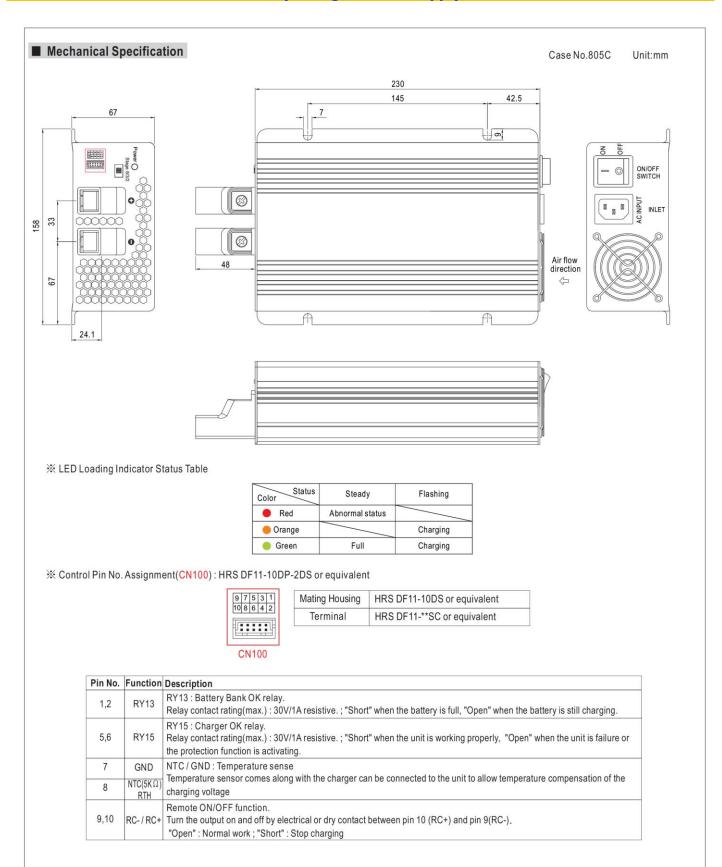


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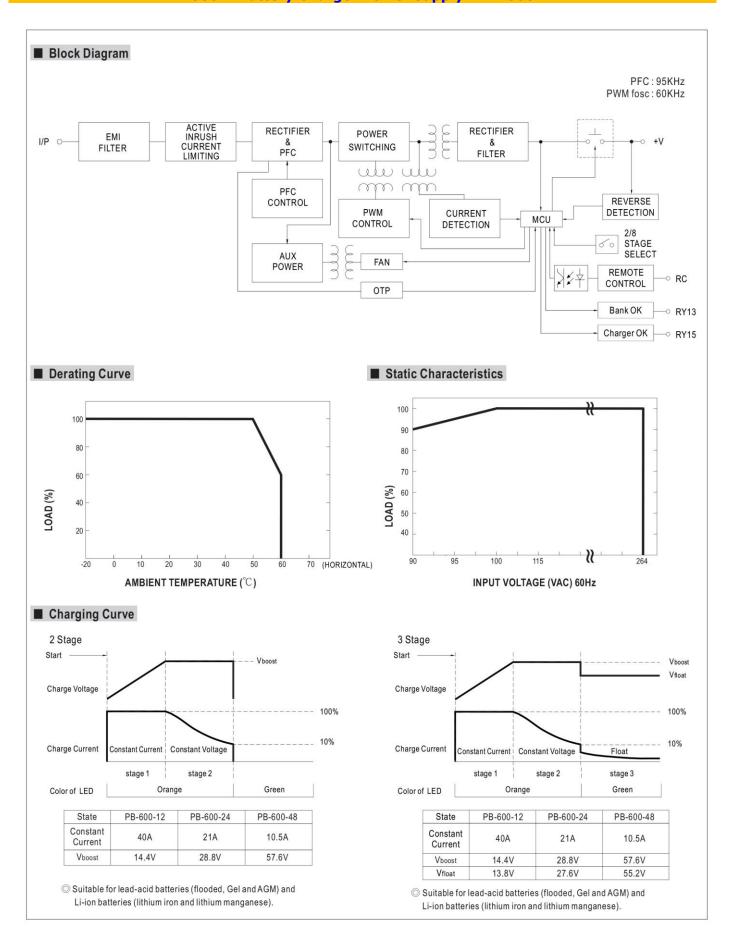


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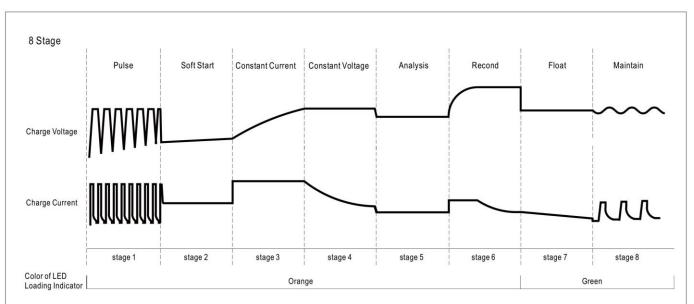


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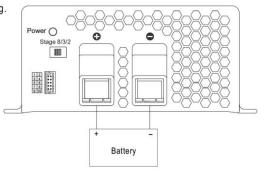
- O Suitable for lead-acid batteries (flooded, Gel and AGM).
- ⊚ "stage 1"(Pulse) and "stage 2"(Soft Start) provide battery rescue function.

#### 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.



	CN	100	
1	RY13	RY13	2
	NC	NC	
	RY15	RY15	
	GND	RTH	
9	RC-	RC+	10

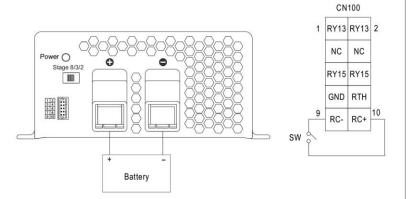
## **■** Function Manual

### 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





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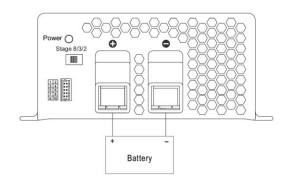
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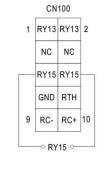
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#### 2.Charger OK Relay(RY15)

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

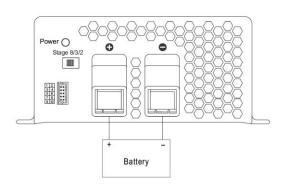


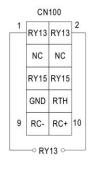


### 3.Output OK Relay (RY13)

### 1.Bank OK (RY13)

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

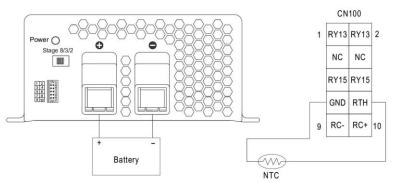




### 4. Temperature compensation

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.