

1000W Intelligent Single Output Battery Charger

PB-1000 series



Features :

- Controlled by microprocessor
- 2/8 stage charging selectable on output panel
- Universal AC input / Full range
- Built-in active PFC function PF>0.95
- Protection: Reverse Polarity / Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- 2-Bank charger
- Temperature compensation function
- FAN on/off control (depends on charging current)
- 3 years warranty

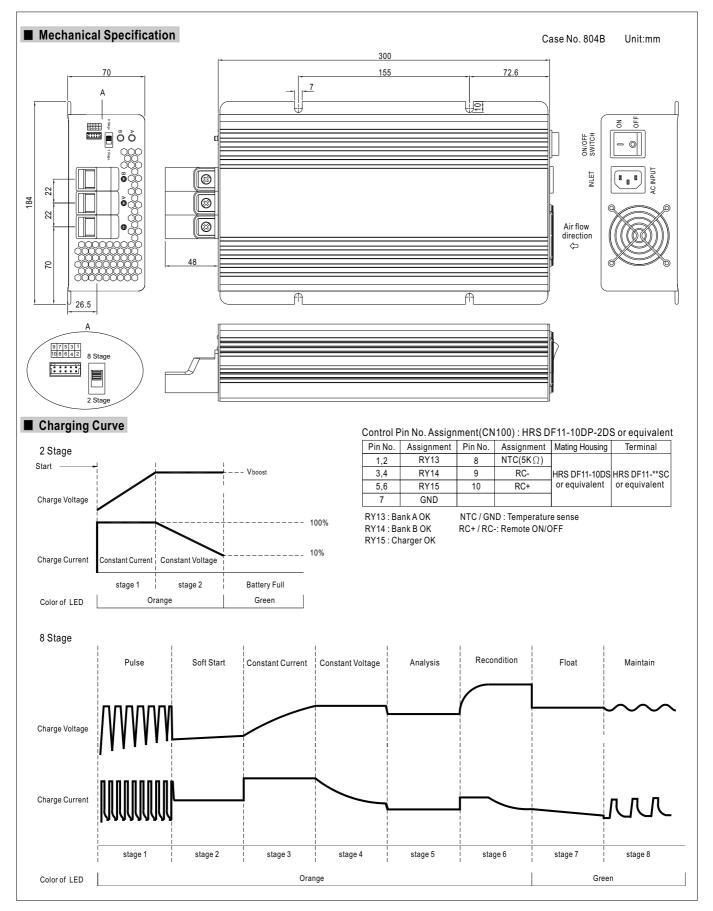


SPECIFICATION

SPECIFIC	ATION					
MODEL		PB-1000-12	PB-1000-24	PB-1000-48		
	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE	13.8V	27.6V	55.2V		
	OUTPUT CURRENT	60A	34.7A	17.4A		
ουτρυτ	RECOMMENDED BATTERY	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah		
OUTPUT	CAPACITY(AMP HOURS)(Note 3)	200 000All				
	BATTERY TYPE	Open & Sealed Lead Acid				
	LEAKAGE CURRENT FROM	<1mA				
	BATTERY (Typ.)					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	85%	88%	89%		
INPUT	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load				
	AC CURRENT (Typ.)	12A/115VAC 5.2A/230VAC				
	INRUSH CURRENT (Typ.)	25A/115VAC 50A/230VAC				
	LEAKAGE CURRENT	<3.5mA/240VAC				
	OVER VOLTAGE	16 ~ 18V	32 ~ 35V	64.5~69.5V		
		Protection type : Shut down o/p voltage, re-power on to recover				
PROTECTION		80°C ±5°C (12V), 85°C ±5°C (24V,48V) (TS	W1: detect on heatsink of power tran	sistor)		
	OVER TEMPERATURE	85°C ±5°C (12V),75°C ±5°C (24V,48V) (TSW2 : detect on heatsink of o/p diode)				
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
	SHORT CIRCUIT	YES, protected by internal circuit				
	REVERSE POLARITY	YES, protected by internal circuit				
	REMOTE CONTROL	Open: Normal work Short: Stop Charging				
	BATTER BANKS	2 banks (A & B)				
FUNCTION	FAST CHARGE	2 / 8 stage selectable				
	CHARGER OK	Relay contact rating(max.): 30V/1A resistive ; "Short" when the unit is working properly, "Open" when the unit is failure or the protection function is activating				
	OUTPUT OK	Relay contact rating(max.): 30V/1A resistive ; "Short" when the battery is full, "Open" when the battery is still charging				
	TEMPERATURE COMPENSATION	By NTC, compensate both banks at the same time				
	WORKING TEMP.	-20 ~ +60 $^\circ\!\mathrm{C}$ (Refer to output load 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	UL60950-1, TUV EN60950-1 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC 25°C 70%RH				
EMC (Note 2)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22)				
(HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A				
OTHERS	MTBF	127.4Khrs min. MIL-HDBK-217F (25°C	2)			
	DIMENSION	300*184*70mm(L*W*H)				
	PACKING	3.5Kg; 4pcs/15Kg/1.83CUFT				
NOTE	2. The power supply is consid EMC directives.	Ily mentioned are measured at 230VAC in lered a component which will be installed i ted range. Please consult your battery ma	nto a final equipment. The final equ	ipment must be re-confirmed that it still meets but maximum charging current limitation.		
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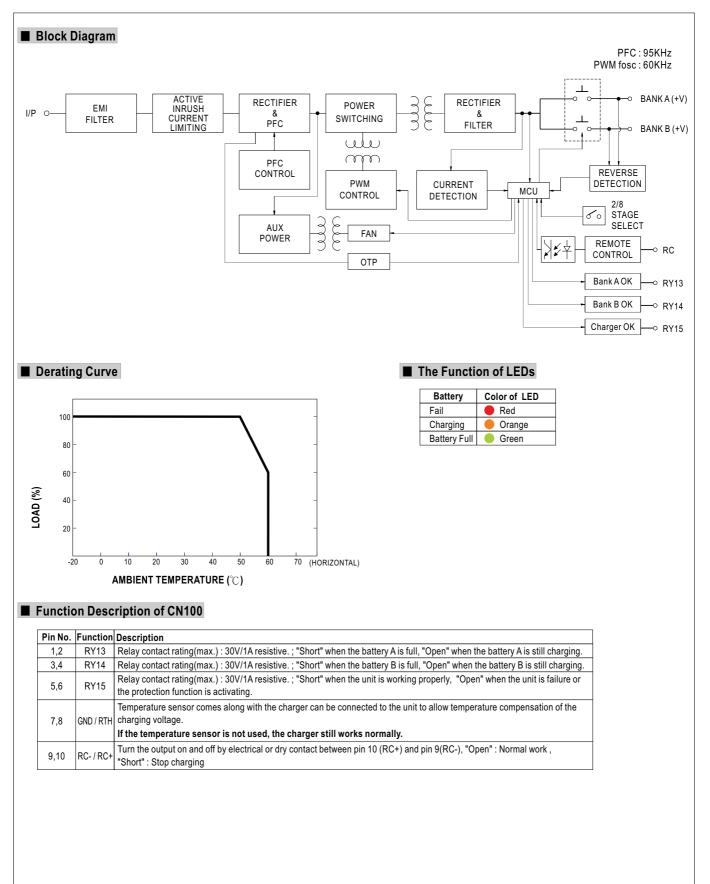


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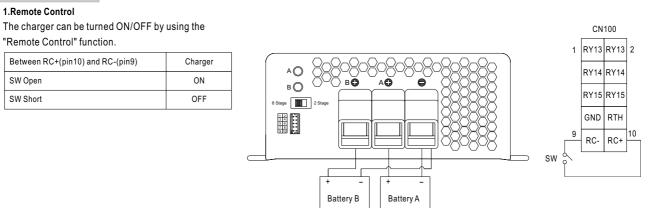
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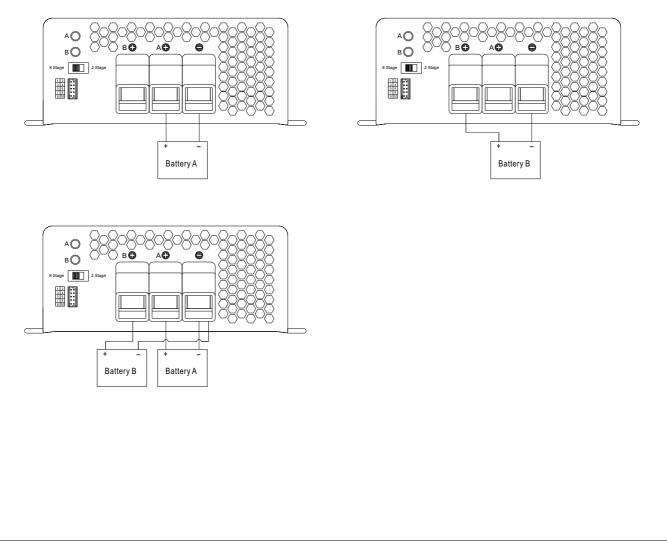
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Function Manual



2.Two Battery Banks

The charger may be hooked up two battery banks (A and/or B). Connect the battery bank(s) as below. If you are connecting 2 battery banks in the same time, keep in mind that they must share a common ground.





Switch

Turn right

Turn left

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3. 2 or 8 stage Charging Select

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

Charging mode						7
2 stage charging		800) В С	A C		2
8 stage charging	8 Stage	2 Stage	\longrightarrow		(—	-
8 Stage 2 Stage	12 12 34 56 78 810	-				

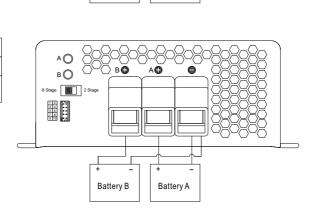
1 RY13 RY13 2 RY14 RY14 RY15 RY15 GND RTH RC+ 10 RC-

9

CN100

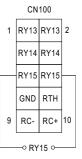
4.Charger OK Relay(RY15)

Charger	Between pin5 and pin6(RY15	
Normal work	ON (Short) OFF (Open)	
Failure or the protection function is activating		



Battery A

Battery B



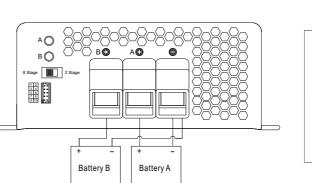
5.Output OK Relay(RY13 & RY14)

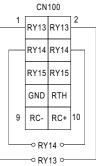
1.Bank A OK (RY13)

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

2.Bank B OK (RY14)

	Bank B	Between pin3 and pin4(RY14)	Color of LED B	
Battery B Full		ON (Short)	Green	
	Charging	OFF (Open)	Orange	





6.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 temperature sensor is not used, the charger still works normally.

