



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



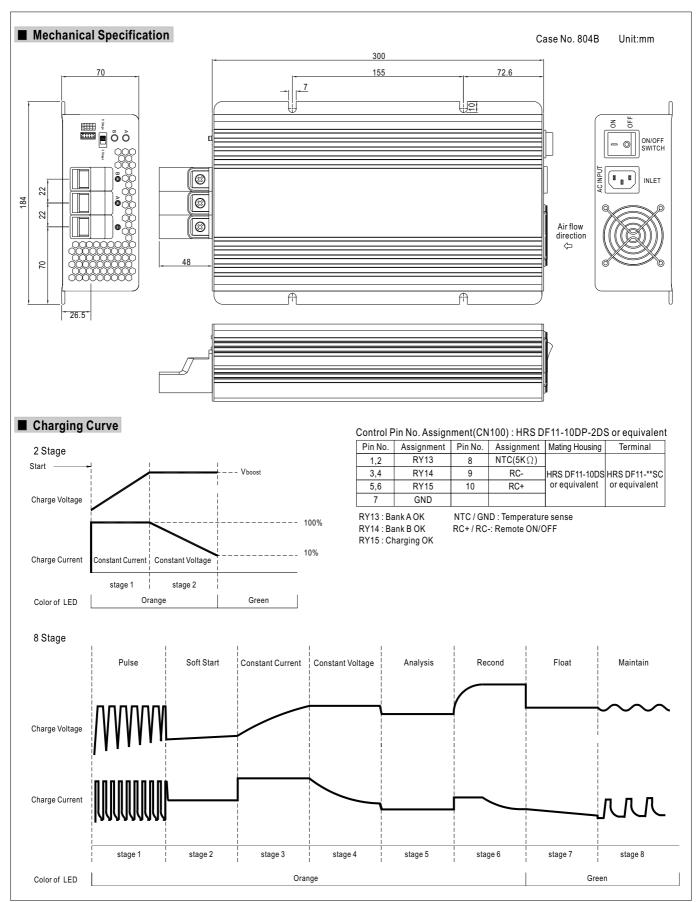




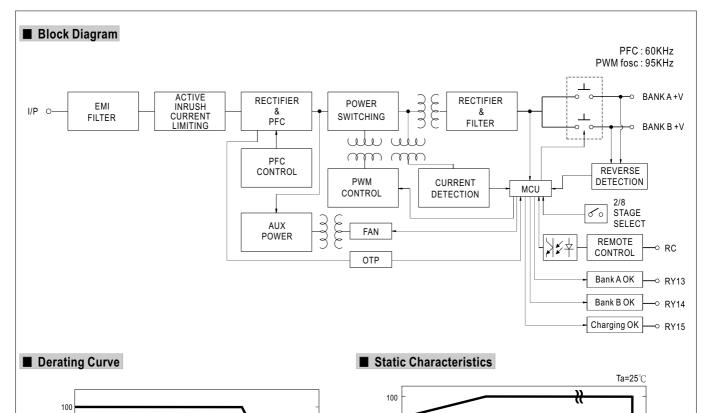
SPECIFICATION

MODEL		PB-1000-12	PB-1000-24	PB-1000-48	
	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V	
	FLOAT CHARGE VOLTAGE	13.6V	27.2V	54.4V	
OUTPUT	RECOMMENDED BATTERY	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah	
	CAPACITY(AMP HOURS)(Note 3)				
	BATTERY TYPE	Open & Sealed Lead Acid	0.4.74	47.44	
	OUTPUT CURRENT	60A	34.7A	17.4A	
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	86%	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	
	OVERVOLINGE	Protection type : Shut down o/p voltage, re-power on to recover			
PROTECTION	OVER TEMPERATURE	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 select			
TONCTION	CHARGING OK	Relay contact rating(max.): 30V/1A resistive; "Short" when the unit is working properly, "Open"when the unit stop charging			
	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°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			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
SAFETY &	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			
	MTBF	127.4Khrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	300*184*70mm(L*W*H)			
-	PACKING	3.5Kg; 4pcs/15Kg/1.83CUFT			
NOTE	All parameters NOT specia The power supply is consided EMC directives.	ially 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.			









80 70

50

40

LOAD (%) 60

70 (HORIZONTAL)

■ Function Description of CN100

AMBIENT TEMPERATURE (°C)

80

60

40

20

-20

Pin No.	Function	Description
1,2	RY13	Relay contact rating(max.): 30V/1A resistive.; "Short" when the battery A is full, "Open" when the battery A is still charging
3,4	RY14	Relay contact rating(max.): 30V/1A resistive.; "Short" when the battery B is full, "Open" when the battery B is still charging
5,6	RY15	Relay contact rating(max.): 30V/1A resistive.; "Short" when the unit is working properly, "Open" when the unit stop charging
7,8	GND / RTH	temperature compensation of the charging voltage
9,10	RC-/RC+	Turn the output on and off by electrical or dry contact between pin 10 (RC+) and pin 9(RC-) Open: Normal work, Short: Stop charging

■ The function of LEDs

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INPUT VOLTAGE (VAC) 60Hz

Battery	Color of LED
Fail	Red
Charging	Orange
Battery Full	Green

CN100



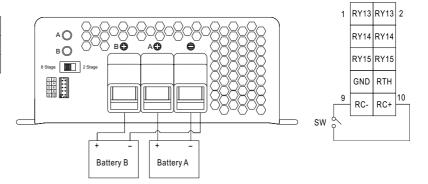
■ Function Manual

1.Remote Control

The charger can be turned ON/OFF by using the

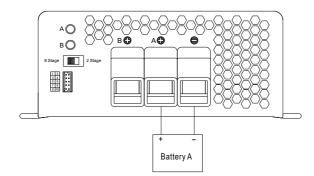
"Remote Control" function.

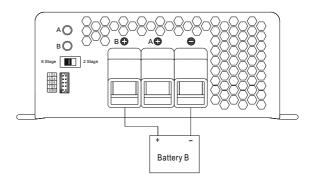
Between RC+(pin10) and RC-(pin9)	Charging
SW Open	ON
SW Short	OFF

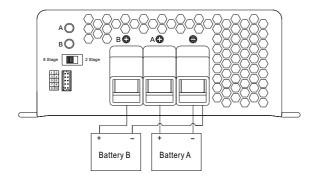


2.Battery Banks

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.





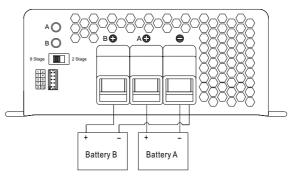




3. 2 or 8 stage charging select

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

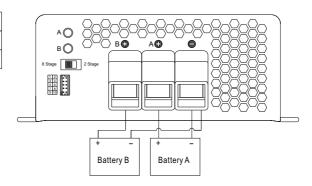
Switch	Charging mode	
Turn right	2 stage charging	
Turn left	8 stage charging	

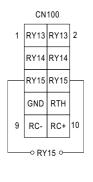


CN100 1 RY13 RY13 2 RY14 RY14 RY15 RY15 GND RTH 9 RC- RC+ 10

4.Charging OK (RY15)

Charger	Between pin5 and pin6(RY15)	
Normal work	ON (Short)	
Stop charging	OFF (Open)	





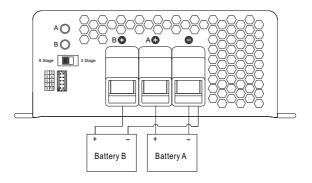
5.Output OK (RY13 & RY14)

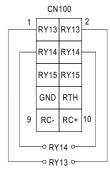
1.Bank A OK (RY13)

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 sensor is not used, the charger still works normally.

