

1000W Intelligent Single Output Battery Charger

Features:

- Controlled by microprocessor
- 2/3/8 stage charging selectable on output panel (Note 4)
- 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

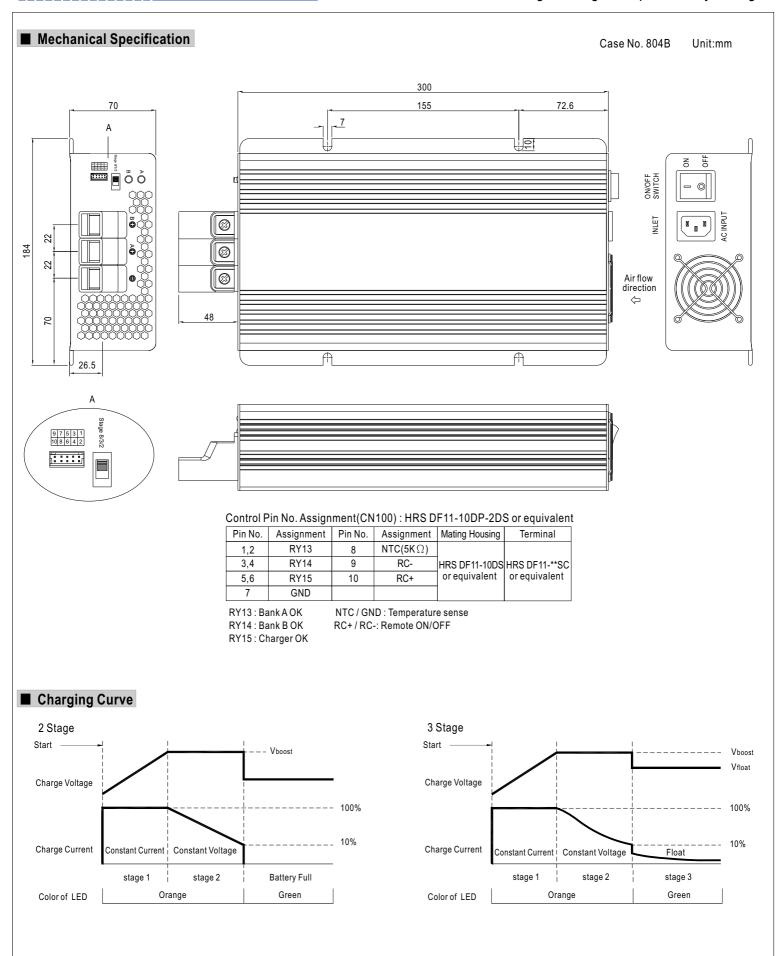
MODEL		PB-1000-12	PB-1000-24	PB-1000-48	
	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V	
OUTPUT	FLOAT CHARGE VOLTAGE	13.8V	27.6V	55.2V	
	OUTPUT CURRENT	60A	34.7A	17.4A	
	RECOMMENDED BATTERY CAPACITY(AMP HOURS)(Note 3)	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah	
	BATTERY TYPE	Open & Sealed Lead Acid			
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA			
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load	i		
INPUT	EFFICIENCY (Typ.)	85%	88%	89%	
	AC CURRENT (Typ.)	12A/115VAC 5.2A/230VAC			
	INRUSH CURRENT (Typ.)	25A/115VAC 50A/230VAC			
	LEAKAGE CURRENT	<3.5mA/240VAC			
		16 ~ 18V	32 ~ 35V	64.5 ~ 69.5V	
	OVER VOLTAGE	Protection type: Shut down o/p voltage, r	e-power on to recover		
PROTECTION		80°C±5°C(12V), 85°C±5°C(24V,48V) (TSV	V1: detect on heatsink of power transistor)		
	OVER TEMPERATURE	85° C $\pm 5^{\circ}$ C (12V), 75° C $\pm 5^{\circ}$ 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	2/3/8 stage selectable			
FUNCTION	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°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. ea	ch along X, Y, Z axes		
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved			
SAFETY &	WITHSTAND VOLTAGE	VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
EMC	ISOLATION RESISTANCE				
(Note 2)	EMC EMISSION	Compliance to EN55022 (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	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 consider 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			

3. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.

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

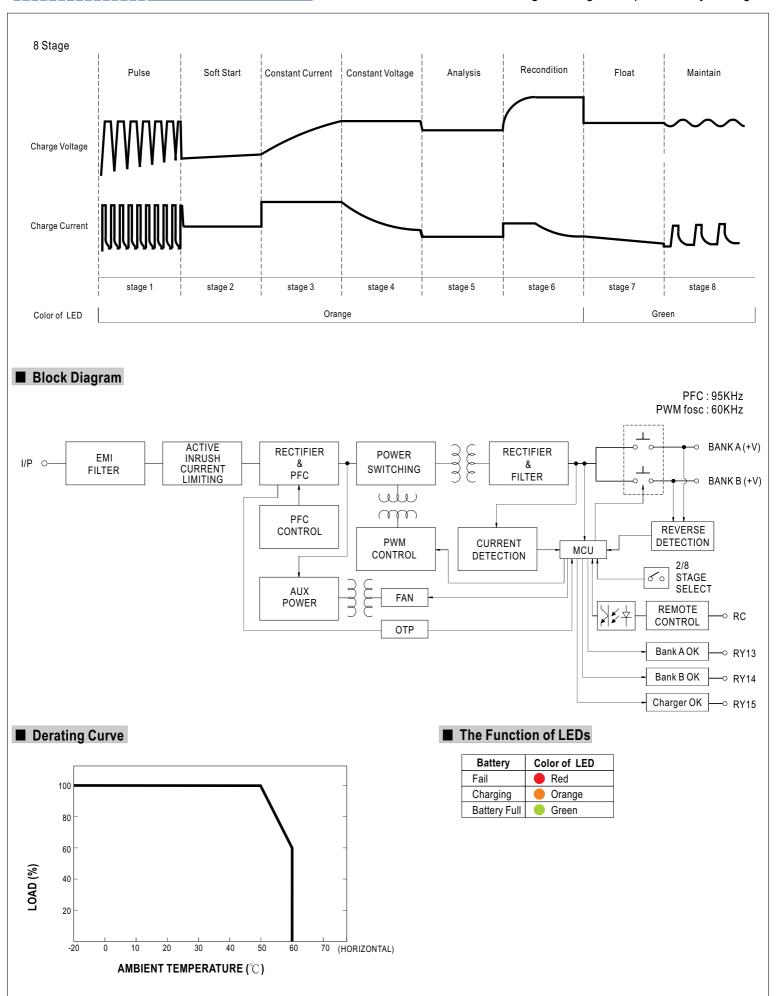


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■ Function Description of CN100

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 is failure or the protection function is activating.
7,8	GND / RTH	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.
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

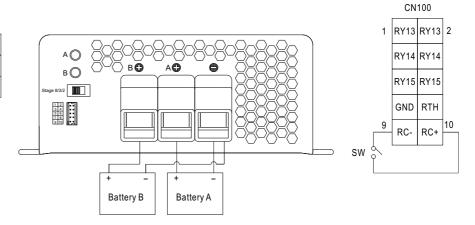
■ Function Manual

1.Remote Control

The charger can be turned ON/OFF by using the

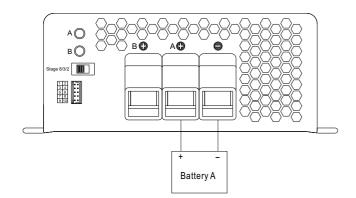
"Remote Control" function.

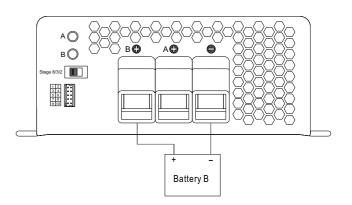
Between RC+(pin10) and RC-(pin9)	Charger
SW Open	ON
SW Short	OFF

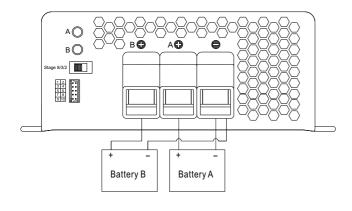


2.Two Battery Banks

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.







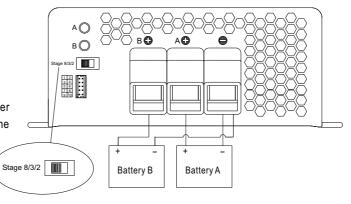
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3. 2,3, or 8 stage Charging Select

(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	

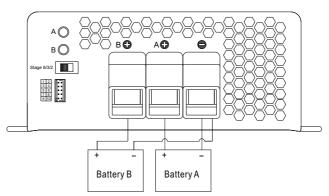
(2)Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.

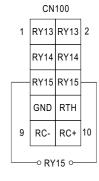


	CN100			
1	RY13	RY13	2	
	RY14	RY14		
	RY15	RY15		
	GND	RTH		
9	RC-	RC+	10	

4.Charger OK Relay(RY15)

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





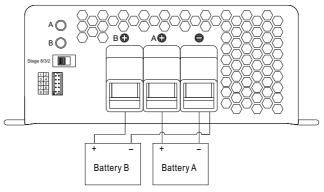
5.Output OK Relay(RY13 & RY14)

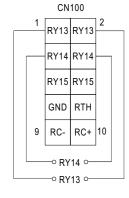
1.Bank A OK (RY13)

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.

