

SDECIEICATION



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

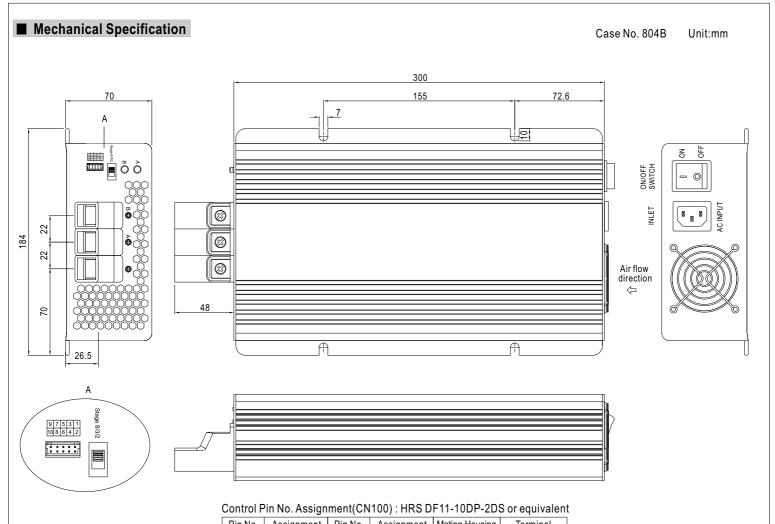


MODEL		PB-1000-12	PB-1000-24	PB-1000-48			
	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V			
	FLOAT CHARGE VOLTAGE	13.8V	27.6V	55.2V			
	OUTPUT CURRENT	60A	34.7A	17.4A			
	RECOMMENDED BATTERY	200 00045	120 25045	CO 475Ab			
OUTPUT	CAPACITY(AMP HOURS)(Note 3)	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah			
	BATTERY TYPE	Open & Sealed Lead Acid					
	LEAKAGE CURRENT FROM	<1mA					
	BATTERY (Typ.)	<tima td="" <=""></tima>					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full loa	d				
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, re-power on to recover					
PROTECTION		80° C $\pm 5^{\circ}$ C (12V), 85° C $\pm 5^{\circ}$ C (24V,48V) (TSW1: detect on heatsink of power transistor)					
	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 Cha	arging				
	BATTER BANKS	2 banks (A & B)					
FUNCTION	FAST CHARGE	2/3/8 stage selectable					
ONCTION	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 s	ame 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. 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					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(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					

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.



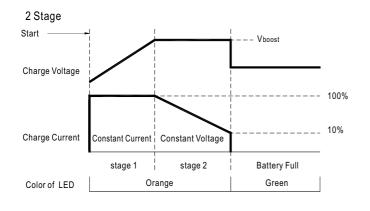


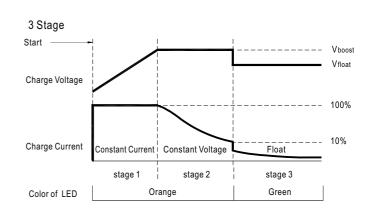
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1,2	RY13	8	$NTC(5K\Omega)$		
3,4	RY14	9	RC-	HRS DF11-10DS	HRS DF11-**SC
5,6	RY15	10	RC+	or equivalent	or equivalent
7	GND				

RY13 : Bank A OK RY14 : Bank B OK NTC / GND : Temperature sense RC+ / RC-: Remote ON/OFF

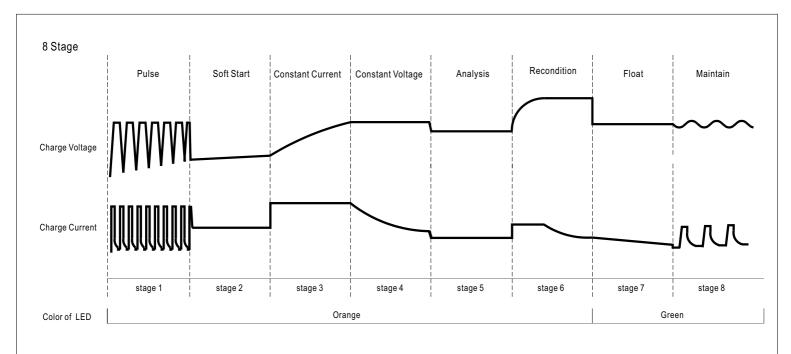
RY15 : Charger OK

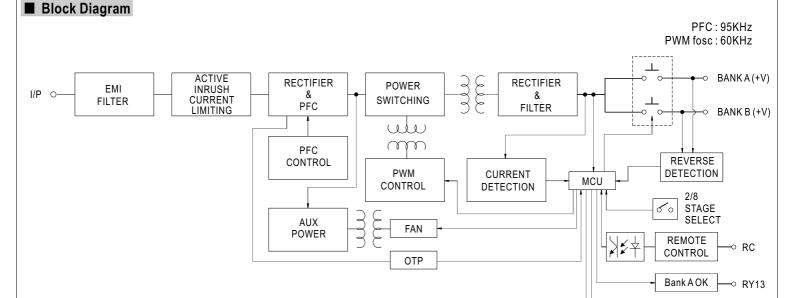
■ Charging Curve

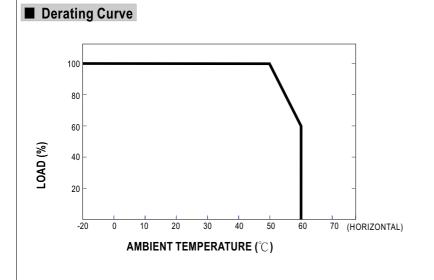












■ The Function of LEDs

Battery	Color of LED
Fail	Red
Charging	Orange
Battery Full	Green

Bank B OK

Charger OK

~ RY14

→ RY15



■ 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	I PV15 I	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		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

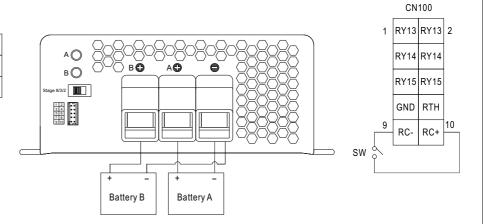
■ Function Manual

1.Remote Control

The charger can be turned ON/OFF by using the

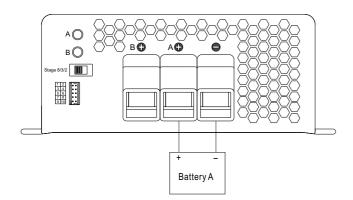
"Remote Control" function.

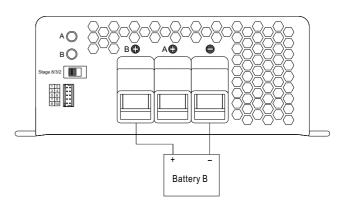
Between RC+(pin10) and RC-(pin9)	Charger
SW Open	ON
SW Short	OFF

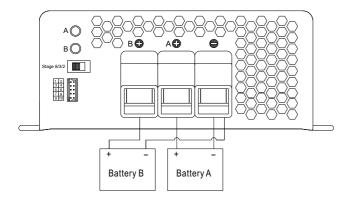


2.Two Battery Banks

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.









1000W Intelligent Single Output Battery Charger

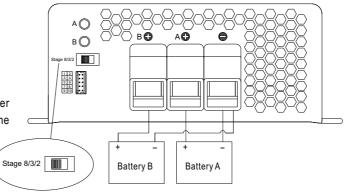
3. 2,3, or 8 stage Charging Select

(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

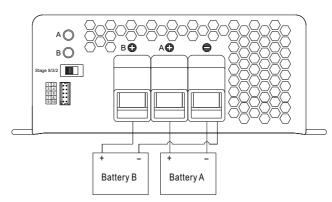
(2)Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.

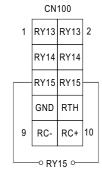


	CN100				
1	RY13	RY13	2		
	RY14	RY14			
	RY15	RY15			
	GND	RTH			
9	RC-	RC+	10		

4.Charger OK Relay(RY15)

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





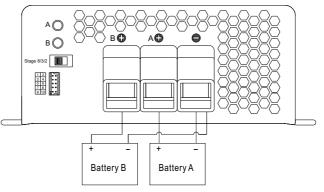
5.Output OK Relay(RY13 & RY14)

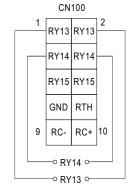
1.Bank A OK (RY13)

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

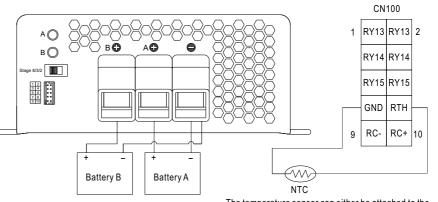




6.Temperature Compensation

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.



The temperature sensor can either be attached to the battery or placed in its surrounding environment.