

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

1000W Battery Charger Power supply> PB-1000



■ 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 selectable on output panel (Note 5)
- · Built-in battery rescue function
- Universal AC input / Full range
- · Controlled by microprocessor
- 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
- 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 Vboost	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE Vfloat	13.8V	27.6V	55.2V		
	OUTPUT CURRENT	60A	34.7A	17.4A		
OUTDUT	RECOMMENDED BATTERY	000 00045	400 05045	00 47541		
OUTPUT	CAPACITY(AMP HOURS)(Note 4)	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah		
	BATTERY TYPE	Open & Sealed Lead Acid				
	LEAKAGE CURRENT FROM	<1mA				
	BATTERY (Typ.)	< IMA				
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load	t			
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				
	OVER VOLTAGE	16~18V	32 ~ 35V	64.5 ~ 69.5V		
PROTECTION	OVERVOLINGE	Protection type: Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	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	rging			
	BATTER BANKS	2 banks (A & B)				
FUNCTION	FAST CHARGE	2/3/8 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°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	$-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ 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	UL62368-1, TUV EN62368-1, EAC TP TC				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-I	FG:0.5KVAC			
EMC	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 (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	127.4K hrs 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 special The power supply is consid EMC directives. This is Mean Well's sugges Please choose the "3 stage	circlication may be required for different battery specification. Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ilered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets teled range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. It is selection when the charger is used to charge the batteries and power the loads in the same time. It is a server of the confirmed that it still meets are the reconstruction of 3.5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).				

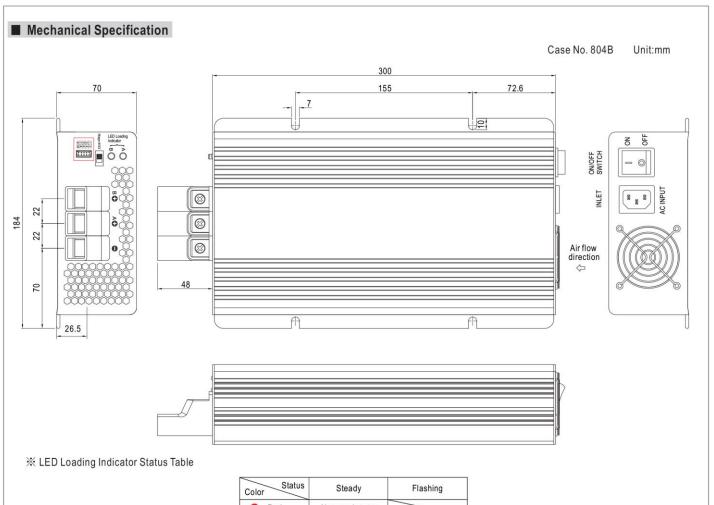


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Color Status	Steady	Flashing
Red	Abnormal status	
Orange		Charging
Green	Full	Charging

※ Control Pin No. Assignment(CN100): HRS DF11-10DP-2DS or equivalent



Mating Housing	HRS DF11-10DS or equivalent	
Terminal	HRS DF11-**SC or equivalent	

Pin No.	Function	Description
1,2	RY13	RY13: Battery Bank A OK relay. 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	RY14: Battery Bank B OK relay. 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	RY15: Charger OK relay. 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	GND	NTC / GND : Temperature sense Temperature sensor comes along with the charger can be connected to the unit to allow temperature compensation of the
8	NTC(5KΩ) RTH	charging voltage. If the temperature sensor is not used, the charger still works normally.
9,10	RC-/RC+	Remote ON/OFF function. 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

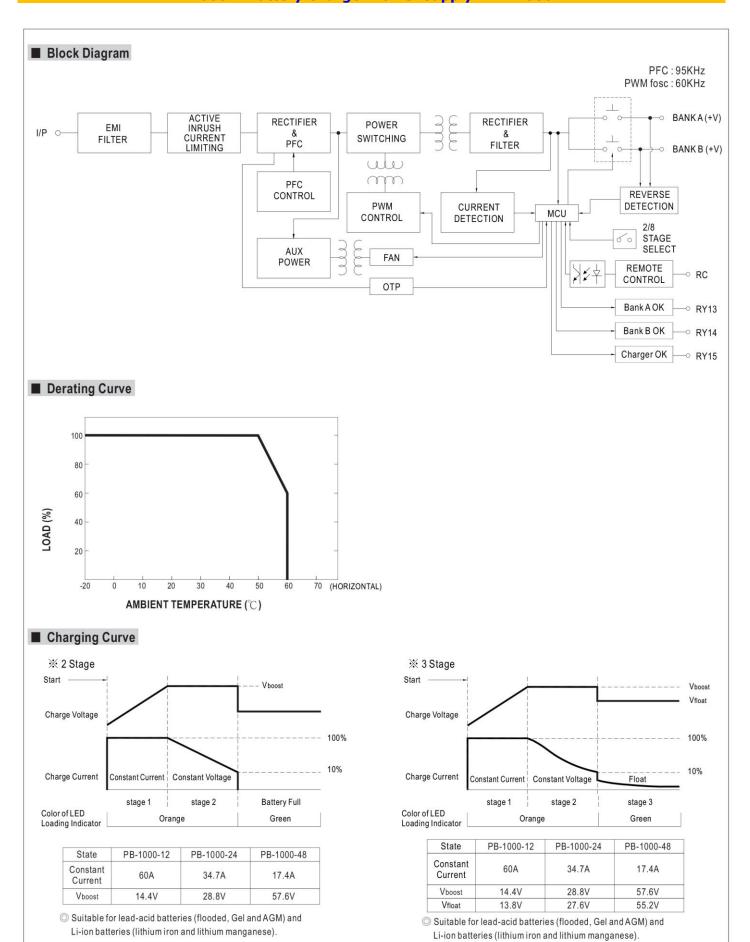


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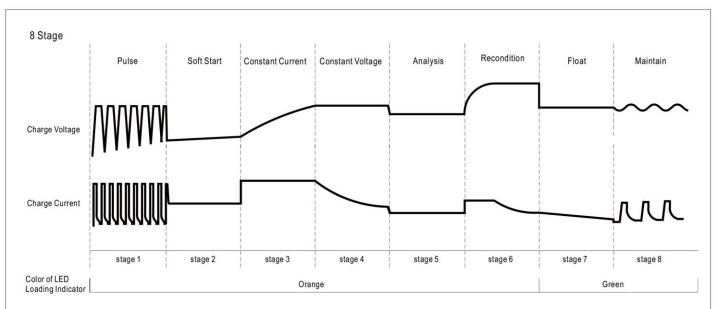


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- O Suitable for lead-acid batteries (flooded, Gel and AGM).
- ⊚ "stage 1"(Pulse) and "stage 2"(Soft Start) provide battery rescue function.

2,3, or 8 Stage Charging Select

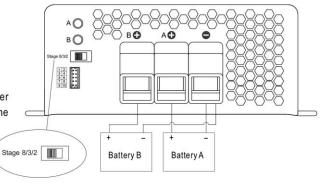
(1) The charger features user selectable 2,3, or 8 stage charging.

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.



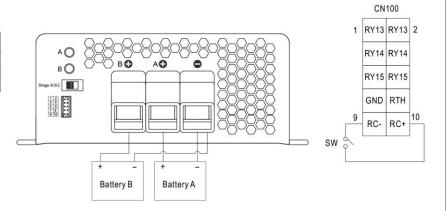
■ Function Manual

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



CN100

1 RY13 RY13 2

RY15 RY15

GND RTH

RC-

RC+ 10



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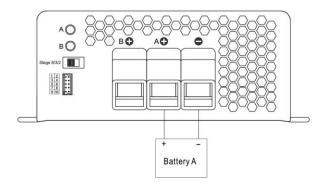
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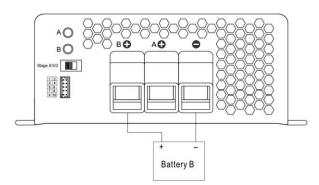
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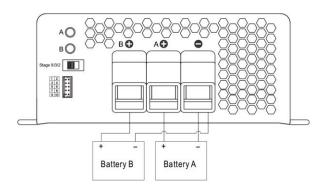
2.Two Battery Banks (2/8 stage only)

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.

NOTE: The charger will charge bank A first then bank B if both channels are connected.

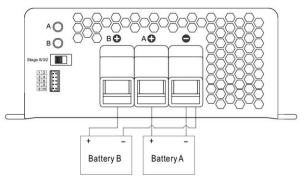


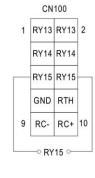




3.Charger OK Relay(RY15)

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





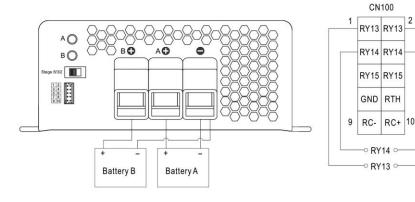
4.Output OK Relay(RY13 & RY14)

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	





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5.Temperature Compensation CN100 Temperature sensor comes along with the charger can 1 RY13 RY13 2 be connected to the unit to allow temperature compensation of the charging voltage. RY14 RY14 If the temperature sensor is not used, the charger still Stage 8/3/2 works normally. RY15 RY15 1 2 3 4 5 6 7 8 9 10 GND RTH RC- RC+ 10 9 Battery B Battery A NTC The temperature sensor can either be attached to the battery or placed in its surrounding environment.