

Features :

Charger for lead-acid batteries (flooded, Gel) 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)

SPECIFICATION

SPECIFIC	ATION					
MODEL		CHL-1000-12	CHL-1000-24	CHL-1000-48		
Ουτρυτ	BOOST CHARGE VOLTAGE Vooost	14.4V	28.8V	57.6V		
	FLOAT CHARGE VOLTAGE Vfloat	13.8V	27.6V	55.2V		
	OUTPUT CURRENT	60A	34.7A	17.4A		
	RECOMMENDED BATTERY CAPACITY(AMP HOURS) (Note 4)	200 ~ 600Ah	120 ~ 350Ah	<mark>60 ~ 175A</mark> h		
	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				
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				
PROTECTION		16 ~ 18V	32 ~ 35V	64.5 ~ 69.5V		
	OVER VOLTAGE	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 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				
EMRONVENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 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 004 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC 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 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				

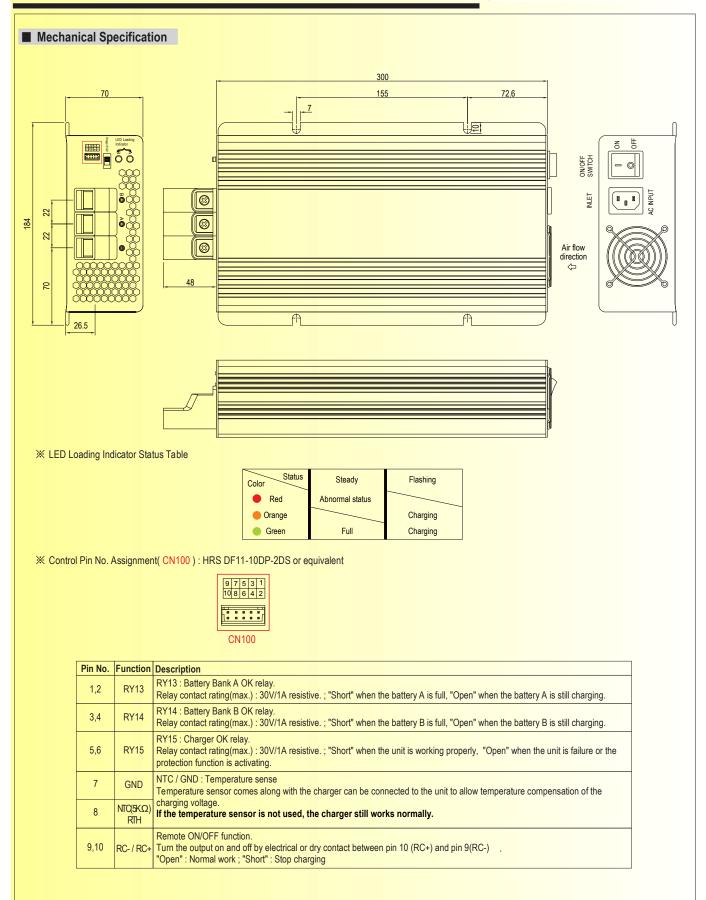
NOTE

All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature
The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets

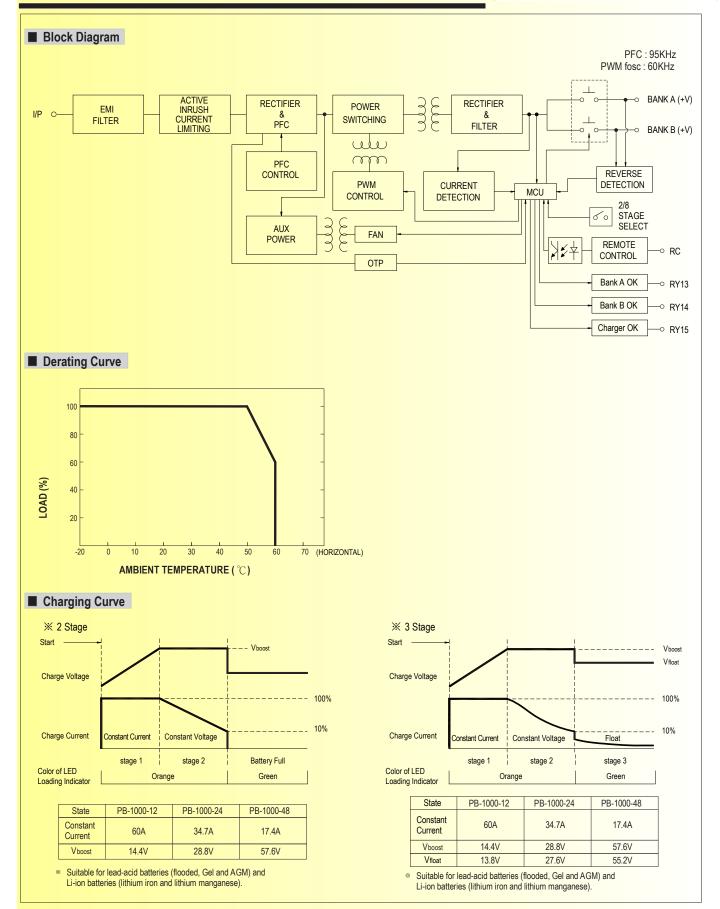
EMC directives.

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



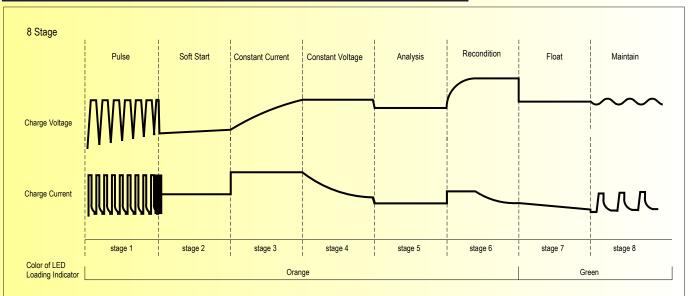






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O Suitable for lead-acid batteries (flooded, Gel and AGM).

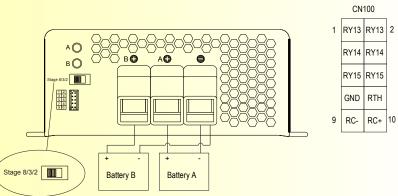
© "stage 1" (Pulse) and "stage 2" (Soft Start) provide battery rescue function.

2,3, or 8 Stage Charging Select

 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

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

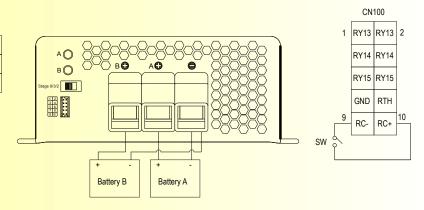


Function Manual

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

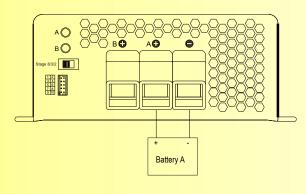


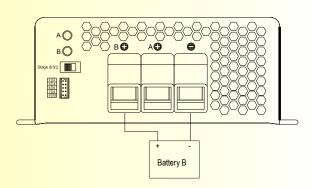


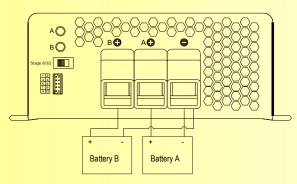
2.Two Battery Banks (2/8 stage only)

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.

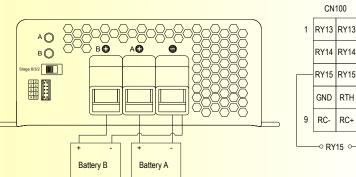






3.Charger OK Relay(RY15)

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



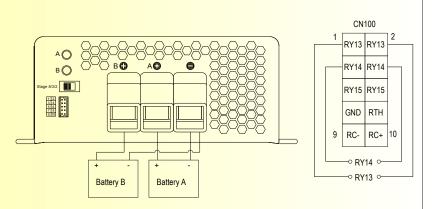
RY13 RY13 2 RY14 RY14 RY15 RY15 GND RTH

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4.Output OK Relay(RY13 & RY14)

1.Bank A	OK (RY13)	
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Between pin1 and pin2(RY13) ON (Short)	Color of LED A Green		
ON (Short)	Green		
OFF (Open)	Orange		
2.Bank B OK (RY14)			
Between pin3 and pin4(RY14)	Color of LED B		
ON (Short)	Green		
OFF (Open)	Orange		
	RY14) Between pin3 and pin4(RY14) ON (Short)		

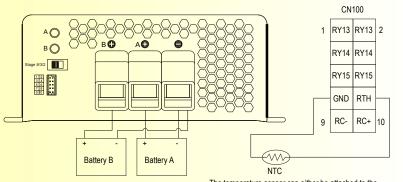




5.Temperature Compensation

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.