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ELECTRONICS

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Jameco Part Number 1954341



■ 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

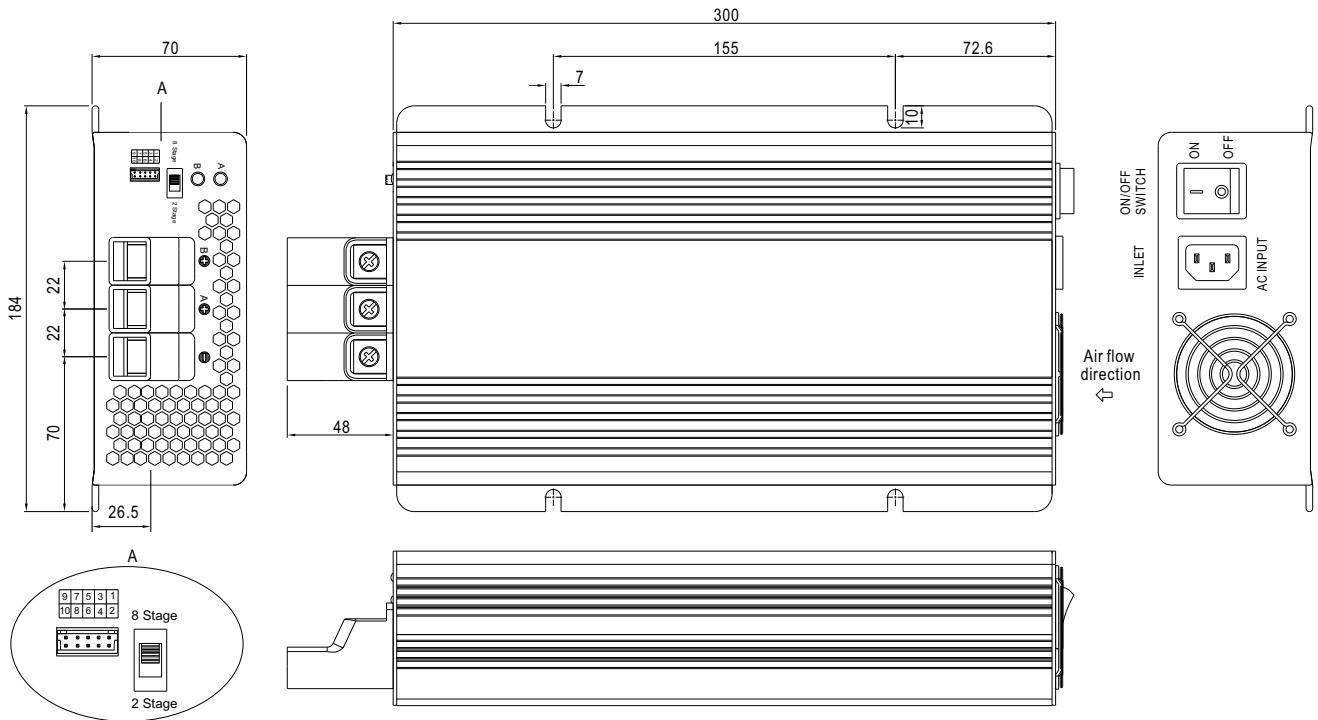


**SPECIFICATION**

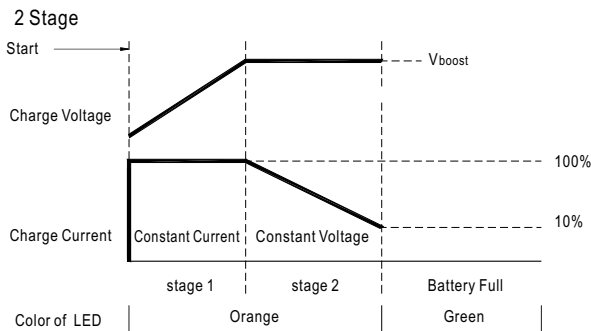
MODEL	PB-1000-12	PB-1000-24	PB-1000-48	
OUTPUT	BOOST CHARGE VOLTAGE	14.4V	28.8V	57.6V
	FLOAT CHARGE VOLTAGE	13.8V	27.6V	55.2V
	OUTPUT CURRENT	60A	34.7A	17.4A
	RECOMMENDED BATTERY CAPACITY(AMP HOURS)(Note 3)	200 ~ 600Ah	120 ~ 350Ah	60 ~ 175Ah
	BATTERY TYPE	Open & Sealed Lead Acid		
	LEAKAGE CURRENT FROM BATTERY (Typ.)	<1mA		
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	85%	88%	89%
	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		
PROTECTION	OVER VOLTAGE	16 ~ 18V	32 ~ 35V	64.5 ~ 69.5V
		Protection type : Shut down o/p voltage, re-power on to recover		
	OVER TEMPERATURE	80°C ±5°C (12V), 85°C ±5°C (24V,48V) (TSW1: detect on heatsink of power transistor)		
		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		
FUNCTION	REMOTE CONTROL	Open: Normal work Short: Stop Charging		
	BATTER BANKS	2 banks (A & B)		
	FAST CHARGE	2 / 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		
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	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 & EMC (Note 2)	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		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC 25°C 70%RH		
	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		
OTHERS	MTBF	127.4Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	300*184*70mm(L*W*H)		
	PACKING	3.5Kg; 4pcs/15Kg/1.83CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. 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.</p> <p>3. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</p>			

**Mechanical Specification**

Case No. 804B Unit:mm



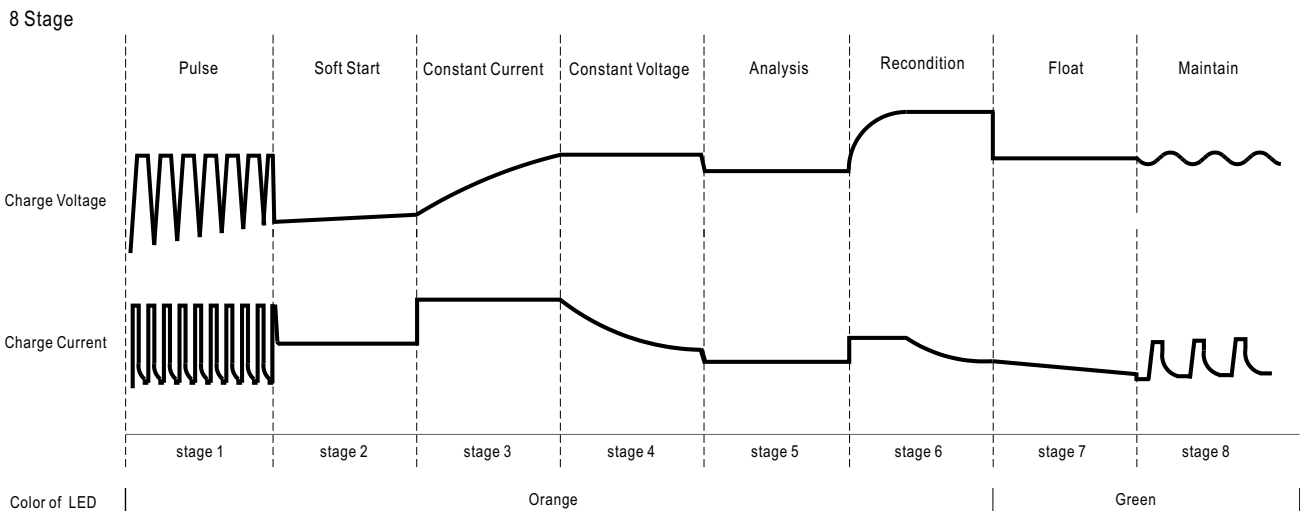
**Charging Curve**



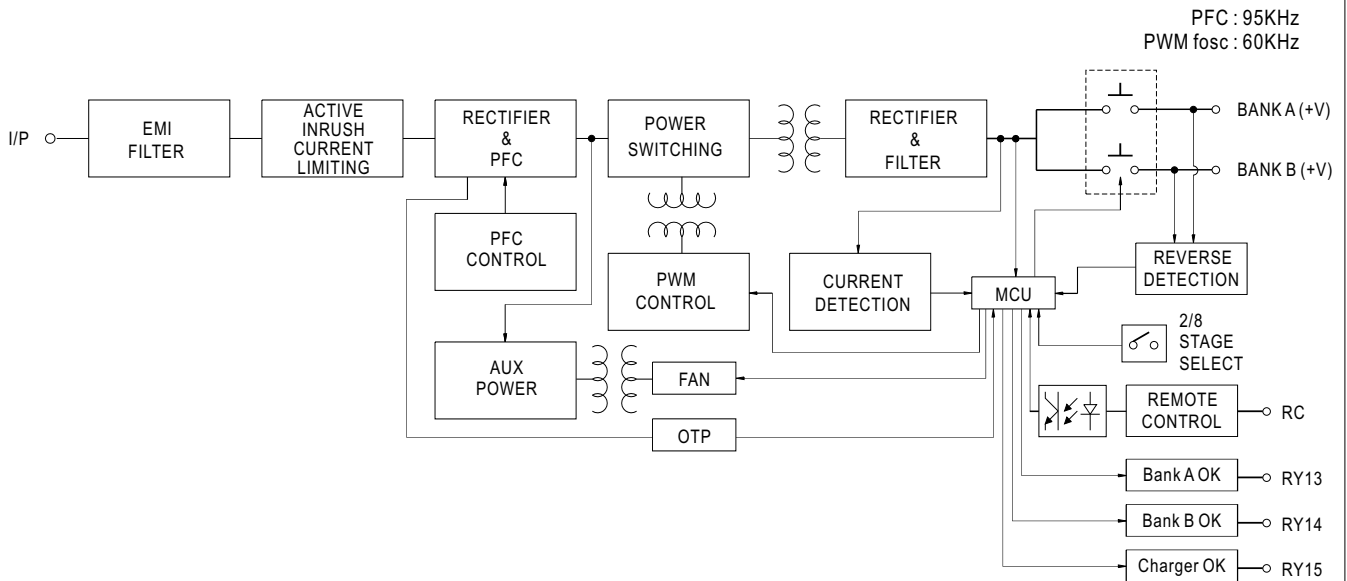
Control Pin No. Assignment(CN100) : HRS DF11-10DP-2DS or equivalent

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

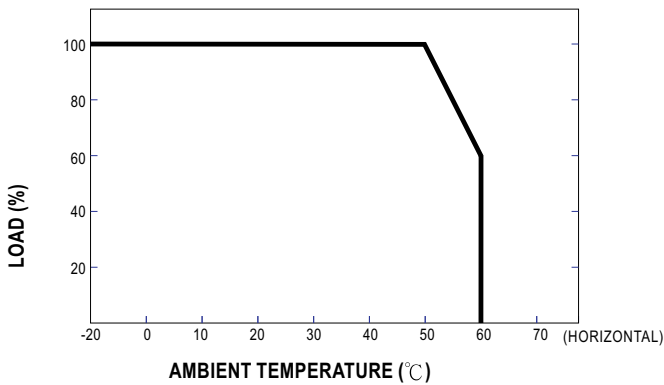
RY13 : Bank A OK      NTC / GND : Temperature sense  
 RY14 : Bank B OK      RC+ / RC-: Remote ON/OFF  
 RY15 : Charger OK



■ Block Diagram



■ Derating Curve



■ The Function of LEDs

Battery	Color of LED
Fail	Red
Charging	Orange
Battery Full	Green

■ Function Description of CN100

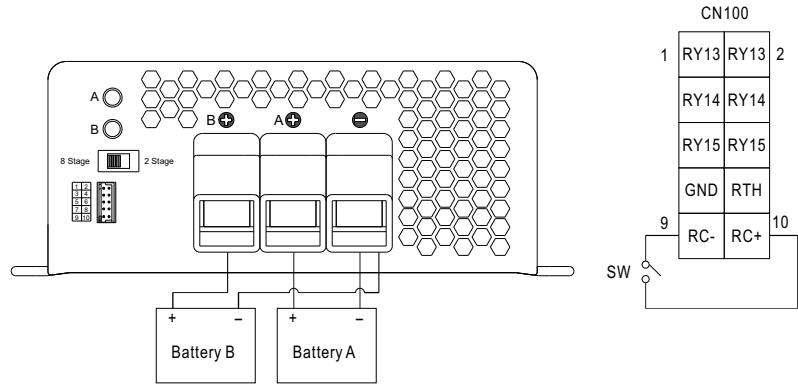
Pin No.	Function	Description
1,2	RY13	Relay contact rating(max.) : 30V/1A resistive. ; "Short" when the battery A is full, "Open" when the battery A is still charging.
3,4	RY14	Relay contact rating(max.) : 30V/1A resistive. ; "Short" when the battery B is full, "Open" when the battery B is still charging.
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. <b>If the temperature sensor is not used, the charger still works normally.</b>
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**

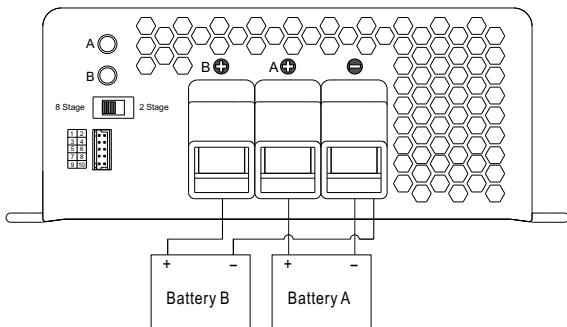
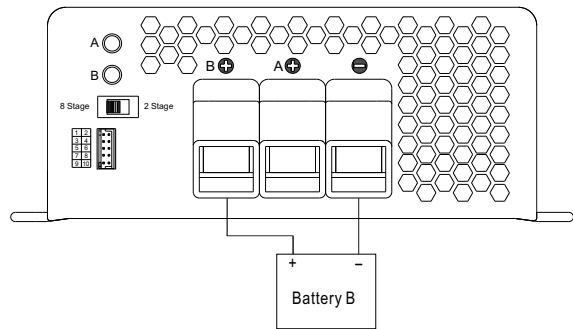
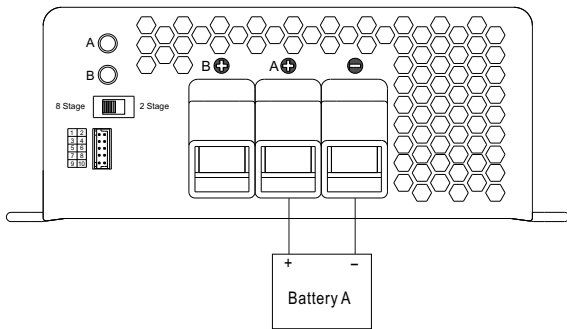
The charger can be turned ON/OFF by using the "Remote Control" function.

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



**2. Two Battery Banks**

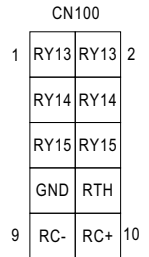
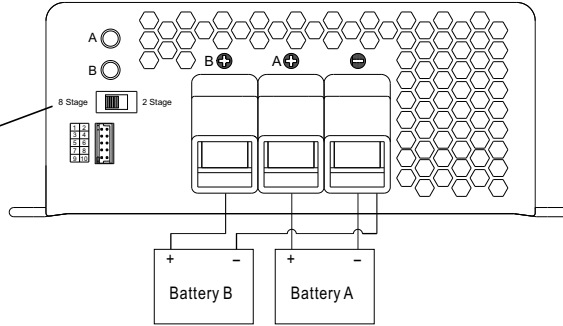
The charger may be hooked up two battery banks (A and/or B). Connect the battery bank(s) as below. If you are connecting 2 battery banks in the same time, keep in mind that they must share a common ground.



**3. 2 or 8 stage Charging Select**

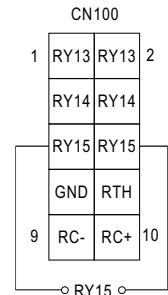
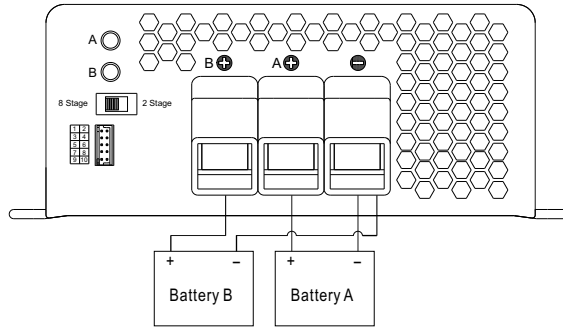
The charger features user selectable 2 or 8 stage charging. The charging profile is selected by moving the slide switch on the back panel.

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



**4. Charger OK Relay(RY15)**

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



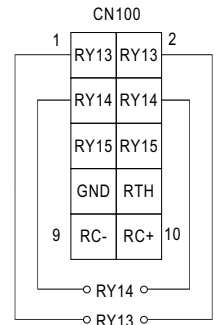
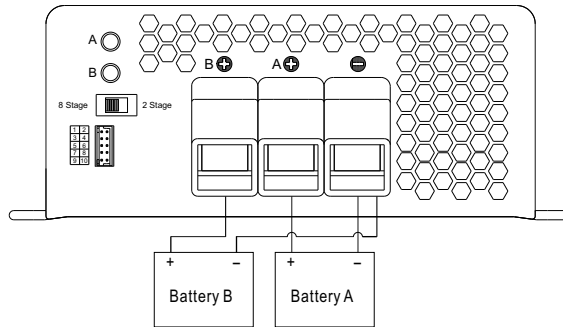
**5. Output OK Relay(RY13 & RY14)**

**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)**

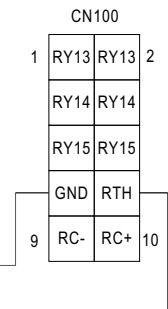
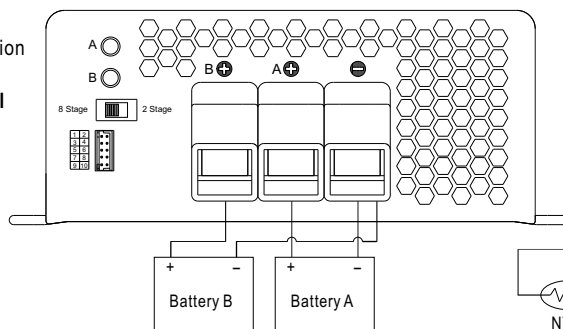
Bank B	Between pin3 and pin4(RY14)	Color of LED B
Battery B Full	ON (Short)	Green
Charging	OFF (Open)	Orange



**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.



MODEL : PB-1000-24

## OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	BOOST CHARGE VOLTAGE	28.8V $\pm$ 0.6V	I/P: 230 VAC I/P: 115 VAC O/P: BAT LOAD Ta:25°C	28.83 V/ 230 VAC 28.83 V/ 115 VAC	P
2	FLOAT CHARGE VOLTAGE	27.6V $\pm$ 0.6V	I/P: 230 VAC I/P: 115 VAC O/P: BAT LOAD Ta:25°C	27.77 V/ 230 VAC 27.77 V/ 115 VAC	P
3	OUTPUT CURRENT	34.7A	I/P: 230 VAC O/P: BAT LOAD Ta:25°C	33.2 A/ 230 VAC	P

## INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	90VAC~264 VAC)	I/P:TESTING O/P:FULL LOAD Ta:25°C	82V~264V	P
			I/P: LOW-LINE=80VAC (+7VAC,-5VAC) HIGH-LINE+15%=300 V O/P:FULL/MIN LOAD ON: 30 Sec . OFF: 30 Sec 10MIN ( AC POWER ON/OFF NO DAMAGE )	TEST: OK	
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE OSC	I/P: 90VAC ~ 264 VAC O/P:FULL -MIN LOAD Ta:25°C	TEST: OK	P
3	POWER FACTOR	0.95 / 230 VAC (TYP)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	PF= 0.98 / 230 VAC	P
		0.98 / 115 VAC (TYP)		PF= 0.99 / 115 VAC	
4	EFFICIENCY	88 % (TYP)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	88.5%	P
5	INPUT CURRENT	230V/ 5.2 A (TYP)	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C	I = 4.4 A/ 230 VAC	P
		115V/ 12 A(TYP)		I = 8.9 A/ 115 VAC	
6	INRUSH CURRENT	230V/ 50 A (TYP)	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	I = 49.8 A/ 230 VAC	P
		230V/ 25 A (TYP) COLD START		I = 24.5 A/ 115 VAC	
7	LEAKAGE CURRENT	< 3.5 mA / 240 VAC	I/P: 254 VAC O/P: Min LOAD Ta:25°C	L-FG: 0.8 mA N-FG: 0.8 mA	P

## PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	OVER VOLTAGE PROTECTION	CH1:32V-35V NO CHARGE MODE TEST	I/P: 230 VAC I/P: 115 VAC O/P:TESTING Ta:25°C	34.1V/ 230 VAC 34.1V/ 115 VAC  PROTECTION RESULT (1) CHARGE OFF (2) BANK 1&2 RED LED LIGHT (3) RY13/ RY14/ RY15 RELAY POINT OPEN (4) FAN OFF (5) SHUT DOWN Re-POWER ON	P
2	OVER TEMPERATURE PROTECTION	Automatically derate charge current until zero	I/P: 230 VAC O/P:BAT. LOAD	O.T.P. Active PROTECTION RESULT (1) CHARGE OFF (2) BANK 1&2 RED LED LIGHT (3) RY13/ RY14/ RY15 RELAY POINT OPEN (4) FAN ON (5) Shut down o/p voltage · recovers automatically after temperature goes down	P
3	O/P SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE +A AND -V SHORT +B AND -V SHORT	I/P: 264 VAC O/P: NO LOAD Ta:25°C	PROTECTION RESULT (1) CHARGE OFF (2) BANK 1&2 RED LED LIGHT (3) RY13/ RY14 RELAY POINT OPEN (4) RY15 RELAY POINT SHORT (5) FAN OFF (6) SHUT DOWN Re-POWER ON	P
4	BATTERY REVERSE POLARITY	Yes. Protected by internal circuit	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	PROTECTION RESULT (1) CHARGE OFF (2) BANK 1&2 RED LED LIGHT (3) RY13/ RY14 RELAY POINT OPEN (4) RY15 RELAY POINT SHORT (5) FAN OFF (6) SHUT DOWN Re-POWER ON	P



### CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT																																				
1	FAN SPEED CONTROL	<table border="1"> <thead> <tr> <th colspan="3">FAN VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>10%~25% LOAD</td> <td>40%~60% LOAD</td> <td>80%~100% LOAD</td> </tr> <tr> <td>7.3V~8.5V</td> <td>9.7V~10.9V</td> <td>11.4V~12.6V</td> </tr> </tbody> </table>	FAN VOLTAGE			10%~25% LOAD	40%~60% LOAD	80%~100% LOAD	7.3V~8.5V	9.7V~10.9V	11.4V~12.6V	I/P:230 VAC O/P:BAT LOAD	7.3V-7.18V 9.7V-9.57V 12.08V-12.1V <table border="1"> <thead> <tr> <th colspan="3">FAN VOLTAGE</th> </tr> </thead> <tbody> <tr> <td>10%~25% LOAD</td> <td>40%~60% LOAD</td> <td>80%~100% LOAD</td> </tr> <tr> <td>8.16-8.18V</td> <td>10.73-10.55V</td> <td>12.2-12.23V</td> </tr> </tbody> </table>	FAN VOLTAGE			10%~25% LOAD	40%~60% LOAD	80%~100% LOAD	8.16-8.18V	10.73-10.55V	12.2-12.23V	P																		
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2	REMOTE CONTROL	Rc+ / Rc- SHORT: CHARGING OFF OPEN: CHARGING ON	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	SHORT: CHARGING OFF OPEN: CHARGING ON	P																																				
3	CHARGING OK (RY15)	RY15: SHORT: NORMAL WORK OPEN: Failure or the protection function is activating	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	RY15: SHORT: NORMAL WORK OPEN: Failure or the protection function is Activating	P																																				
4	OUTPUT OK	1.BANK A OK (RY13) <table border="1"> <thead> <tr> <th>BANK A</th> <th>Between Pin1&amp;Pin2 (RY13)</th> <th>Color of LED A</th> </tr> </thead> <tbody> <tr> <td>Battery A full</td> <td>On (short)</td> <td>Green</td> </tr> <tr> <td>Charging</td> <td>Off (open)</td> <td>Orange</td> </tr> </tbody> </table> 2. BANK B OK (RY14) <table border="1"> <thead> <tr> <th>BANK B</th> <th>Between Pin3&amp;Pin4 (RY14)</th> <th>Color of LED B</th> </tr> </thead> <tbody> <tr> <td>Battery B full</td> <td>On (short)</td> <td>Green</td> </tr> <tr> <td>Charging</td> <td>Off (open)</td> <td>Orange</td> </tr> </tbody> </table>	BANK A	Between Pin1&Pin2 (RY13)	Color of LED A	Battery A full	On (short)	Green	Charging	Off (open)	Orange	BANK B	Between Pin3&Pin4 (RY14)	Color of LED B	Battery B full	On (short)	Green	Charging	Off (open)	Orange	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	1.BANK A OK (RY13) <table border="1"> <thead> <tr> <th>BANK A</th> <th>Between Pin1&amp;Pin2 (RY13)</th> <th>Color of LED A</th> </tr> </thead> <tbody> <tr> <td>Battery A full</td> <td>On (short)</td> <td>Green</td> </tr> <tr> <td>Charging</td> <td>Off (open)</td> <td>Orange</td> </tr> </tbody> </table> 2. BANK B OK (RY14) <table border="1"> <thead> <tr> <th>BANK B</th> <th>Between Pin3&amp;Pin4 (RY14)</th> <th>Color of LED B</th> </tr> </thead> <tbody> <tr> <td>Battery B full</td> <td>On (short)</td> <td>Green</td> </tr> <tr> <td>Charging</td> <td>Off (open)</td> <td>Orange</td> </tr> </tbody> </table>	BANK A	Between Pin1&Pin2 (RY13)	Color of LED A	Battery A full	On (short)	Green	Charging	Off (open)	Orange	BANK B	Between Pin3&Pin4 (RY14)	Color of LED B	Battery B full	On (short)	Green	Charging	Off (open)	Orange	P
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## ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	MODEL : PB-1000-12 1. HIGH AMBIENT BURN-IN : 39HRS I/P: 230VAC O/P: BAT 190AH Ta= 48.9 °C SELECT:8STAGE 2. HIGH AMBIENT BURN-IN : 8HRS I/P: 264VAC O/P: BAT 190AH Ta= 49.9 °C SELECT:8STAGE 3. HIGH AMBIENT BURN-IN : 24HRS I/P: 100VAC O/P: BAT 190AH Ta= 45.4 °C SELECT:8STAGE 4. HIGH AMBIENT BURN-IN : 22HRS I/P: 90VAC O/P: BAT 190AH Ta= 40.3 °C SELECT:8STAGE 5. HIGH AMBIENT BURN-IN : 24HRS I/P: 90VAC O/P: BAT 190AH Ta= 45.9 °C SELECT:2STAGE			P
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 230 VAC O/P: BAT 190AH Ta= -25 °C	TEST : OK	P
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P: 272 VAC O/P: FULL LOAD Ta= 50°C HUMIDITY= 95 %R.H	TEST : OK	P
4	TEMPERATURE COEFFICIENT	± 0.05 % (0-50°C)	I/P: 230 VAC O/P: BAT 190AH	± 0.02 % (0-50°C)	P
5	VIBRATION TEST	1 Carton & 1 Set (1) Waveform: Sine Wave (2) Frequency: 10-500Hz (3) Sweep Time: 10min/sweep cycle (4) Acceleration: 2G (5) Test Time: 1 hour in each axis (X.Y.Z) (6) Ta: 25°C		TEST : OK	P

## SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P: 3 KVAC/min I/P-FG: 1.5 KVAC/min O/P-FG: 0.5 KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 1.8 KVAC/min O/P-FG: 0.6 KVAC/min Ta: 25°C	I/P-O/P: 8.25 mA I/P-FG: 6.12 mA O/P-FG: 0.002 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC > 100MΩ I/P-FG: 500VDC > 100MΩ O/P-FG: 500VDC > 100MΩ	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta: 25°C	I/P-O/P: 1.2 GΩ I/P-FG: 1.5 GΩ O/P-FG: 5 GΩ NO DAMAGE	P
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40 A / 2min Ta: 25°C	15 mΩ	P
4	APPROVAL	TUV: Certificate NO : R50127896 UL: File NO : E183223			P

**E.M.C TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN61000-3-2 CLASS A CLASS D	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	PASS	P
2	CONDUCTION	EN55022 CLASS B	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	PASS Test by certified Lab	P
3	RADIATION	EN55022 CLASS B	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	PASS Test by certified Lab	P
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	CRITERIA A	P
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N :1KV L,N-PE:2KV	I/P: 230 VAC (50HZ) O/P:BAT. LOAD Ta:25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

**M.T.B.F & LIFE CYCLE CALCULATION**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	PB-1000-12:SUPPOSE C105 I/P: 230VAC O/P:FULL LOAD Ta= 25 °C I/P: 230VAC O/P:FULL LOAD Ta= 50 °C	IS THE MOST CRITICAL COMPONENT LIFE TIME= 607894 HRS LIFE TIME= 107501 HRS		P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 127.4KHRS			P



## COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	Power Transistor (D to S) or (C to E) <b>Peak Voltage</b>	Q 900 Rated IRGP20B60PDPbF 20A/600V	I/P:High-Line +3V = 267 V O/P: (1) BAT LOAD INPUT (2) Output Short Ta:25°C	(1) 390 V (2) 136 V	P
2	Diode <b>Peak Voltage</b>	D 100 Rated 30CPQ150 30A/150V	I/P:High-Line +3V = 267 V O/P: (1) BAT LOAD INPUT (2) Output Short Ta:25°C	(1) 104 V (2) 0 V	P
3	<b>Input Capacitor Voltage</b>	C 5 Rated 330u/420V 105°C	I/P:High-Line +3V = 267 V O/P: (1) BAT LOAD (2) Output Short Ta:25°C	(1) 382 V (2) 387 V	P
4	<b>Control IC Voltage Test</b>	U 150 Rated SG3525AN : 35 V	I/P:High-Line +3V = 267 V O/P: (1) BAT LOAD (2) Output Short Ta:25°C	(1) 12.99 V (2) 13 V	P
5	P.F.C Transistor (D to S) or (C to E) <b>Peak Voltage</b>	Q 1 Rated IRFPS38N60LPBF 38A/600V	I/P:High-Line +3V = 267 V O/P: (1) BAT LOAD INPUT (2) Output Short Ta:25°C	(1) 424 V (2) 380 V	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2008/1/21	RD SMAPLE	PASS	SANFORD SU	VINCENT TSENG
2008/5/28	PRODUCT SAMPLE W0803A75	PASS	SANFORD SU	VINCENT TSENG
2008/6/30	PRODUCT SAMPLE W0805E68	PASS	SANFORD SU	VINCENT TSENG

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