



Test Report: RPB-1600-24

1600W Intelligent Single Output Battery Charger

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Control Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	BOOST CHARGE VOLTAGE(Vboost)(default)	Default, programmable 28.8V±0.24V	I/P: 230 VAC O/P: CV MODE Ta:25°C	28.859V
2	FLOAT CHARGE VOLTAGE	Default, programmable 27.6V±0.24V	I/P: 230 VAC O/P: CV MODE Ta:25°C	27.646V
3	OUTPUT CURRENT	55A±1.65A	I/P: 230 VAC O/P:CV MODE-2V Ta:25°C	55.5A
4	VOLTAGE ADJ. RANGE	23.5V-30V (D0 - -V short)	I/P: 230 VAC O/P:NO LOAD Ta:25°C	22.6V-30.72V/230VAC 22.6V-30.72V/115VAC
5	LEAKAGE CURRENT FROM BATTERY (Typ.)	<45mA	I/P: AC OFF O/P:BATTERY Ta:25°C	42.6mA

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90VAC~264VAC	I/P:TESTING O/P: FULL LOAD O/P:60% LOAD Ta:25°C	150 V~ 264 V 87V~264V
			I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+15%=300 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (2)230Vac ON: 0.5 Sec OFF: 0.5 Sec 20MIN (3)230Vac ON:3Sec OFF:3Sec 12HOURS (POWER ON/OFF NO DAMAGE)	TEST:OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P:100 VAC ~264 VAC O/P:FULL -MIN LOAD Ta:25°C	TEST: OK
3	INPUT CURRENT (Typ.)	230V/ 8.5 A 115V/ 15 A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD (PLEASE CHECK DERATING CURVE) Ta : 25°C	I =7.83A/ 230VAC I =12.77A/ 115VAC
4	LEAKAGE CURRENT	<2 mA / 240 VAC	I/P : 240 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.8 mA N-FG : 0.8 mA
5	POWER FACTOR (Typ.)	0.97 / 230VAC	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	PF=0.98/230VAC

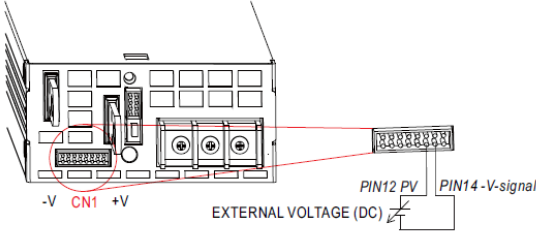
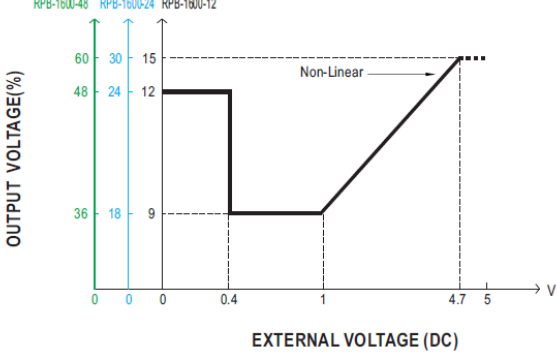
6	EFFICIENCY(Typ.)	92.5%	I/P:230 VAC O/P: FULL LOAD Ta:25°C	92.6 %
7	INRUSH CURRENT(Typ.)	230V/35 A COLD START	I/P : 230 VAC O/P : FULL LOAD Ta : 25°C	I =31.6A/ 230VAC T50= 1920 us/230V
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : Input current</p> <p>Ch1 Max 31.6 A Ch1 +Over 0.000 % Ch1 Min -22.6 A</p> <p>29 Mar 2016 18:39:57</p>				

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	31.5 V~ 37.5 V PROTECTION TYPE : Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 230VAC I/P: 90VAC O/P:MIN LOAD Ta:25°C	34.5V/ 264VAC 34.5V/ 230VAC 34.5V/ 90VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover
2	OVER TEMPERATURE PROTECTION	NO DAMAGE PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down	I/P: 264VAC I/P: 90VAC O/P:FULL LOAD	O.T.P. Active PROTECTION TYPE : Shut down o/p voltage, recovers automatically after temperature goes down

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT						
1	AUXILIARY POWER (AUX)	1. 5V±10%@0.3A ripple:150mVp-p 2. 12V±10%@0.8A ripple:250mVp-p	I/P: 230 VAC O/P:FULL LOAD Ta:25°C	4.741V/0.3A ; ripple:14mVp-p 11.36V/0.8A ; ripple: 156 mVp-p						
2	REMOTE ON/OFF CONTROL	<p>The power supply can be turned ON/OFF individually or along with other units in parallel by using the "Remote ON-OFF" function.</p> <table border="1"> <thead> <tr> <th>Between Remote ON-OFF and +5V-AUX</th> <th>Power Supply Status</th> </tr> </thead> <tbody> <tr> <td>Switch Short</td> <td>ON</td> </tr> <tr> <td>Switch Open</td> <td>OFF</td> </tr> </tbody> </table> <p>I/P: 230 VAC O/P:FULL LOAD Ta:25°C Test Result :</p>			Between Remote ON-OFF and +5V-AUX	Power Supply Status	Switch Short	ON	Switch Open	OFF
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Switch Short	ON									
Switch Open	OFF									

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<p>3</p>	<p>ALARM SIGNAL</p>	<p>1. DC OK SIGNAL High (4.5 ~ 5.5V) : When the $V_{out} \leq 8V/16V/32V \pm 1V$. Low (0 ~ 0.5V) : When $V_{out} \geq 8V/16V/32V \pm 1V$. The maximum sourcing current is 10mA and only for output. DC OK is associated with battery low protection. I/P: 230 VAC O/P: FULL LOAD Ta: 25°C Test Result :</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th style="text-align: center;">Vout</th> <th style="text-align: center;">DC OK SIGNAL</th> </tr> <tr> <td style="text-align: center;">$V_{out} \leq 75\%$</td> <td style="text-align: center;">5V</td> </tr> <tr> <td style="text-align: center;">$V_{out} \geq 85\%$</td> <td style="text-align: center;">-0.09V</td> </tr> </table> <p>2. T-ALARM</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">P.S.U STATUS</th> <th style="text-align: center;">Vo</th> <th style="text-align: center;">T-ALARM</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NORMAL</td> <td style="text-align: center;">$100\% \pm 2\%$</td> <td style="text-align: center;">-0.1 ~ -0.5V</td> </tr> <tr> <td style="text-align: center;">OTP OR FAN LOCK</td> <td style="text-align: center;">0V</td> <td style="text-align: center;">4.5 ~ 5.5V</td> </tr> </tbody> </table> <p>I/P: 230 VAC O/P: FULL LOAD Ta: 25°C Test Result :</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">P.S.U STATUS</th> <th style="text-align: center;">T-ALARM</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">NORMAL</td> <td style="text-align: center;">-0.09 V</td> </tr> <tr> <td style="text-align: center;">OTP OR FAN LOCK</td> <td style="text-align: center;">4.936V</td> </tr> </tbody> </table>	Vout	DC OK SIGNAL	$V_{out} \leq 75\%$	5V	$V_{out} \geq 85\%$	-0.09V	P.S.U STATUS	Vo	T-ALARM	NORMAL	$100\% \pm 2\%$	-0.1 ~ -0.5V	OTP OR FAN LOCK	0V	4.5 ~ 5.5V	P.S.U STATUS	T-ALARM	NORMAL	-0.09 V	OTP OR FAN LOCK	4.936V
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<p>6</p>	<p>OUTPUT VOLTAGE PROGRAMMABLE(PV)</p>	<p>(D0 - -V short) ※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed by applying EXTERNAL VOLTAGE.</p>  <p style="text-align: center;">EXTERNAL VOLTAGE (DC)</p>  <p style="text-align: center;">EXTERNAL VOLTAGE (DC)</p> <p>I/P: 230 VAC O/P: FULL LOAD Ta: 25°C Test Result :</p>																					

		PV	<0.4V	1V	4.7V	5V
		MODEL				
		SPEC	24V±5%	18V±5%	30V±5%	30V±5%
		Vout	24.11V	18.03V	30.2V	30.3V

7 OUTPUT CURRENT PROGRAMMABLE (PC)

(D0 - -V short)
 ※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.

EXTERNAL VOLTAGE (DC)

I/P: 230 VAC
 O/P: TESTING
 Ta: 25°C
 Test Result :

ADJ V	<0.4V	1V	4.7V	5V
SPEC	100%±10%	20%±10%	100%±10%	100%±10%
Iout	101.09%	22.25%	100.7%	101.2%

9 Temperature Compensation

Temperature sense associated with the temperature compensation function.

NTC

- ◎ To exploit the temperature compensation function, please attach the temperature sensor, NTC, which is enclosed with the charger, to the battery or the battery's vicinity.
- ◎ The charger is able to work normally without the NTC.

When multiple chargers are connected in parallel, please configure with the NTC as exhibited in the diagram .
 If the temperature compensation is not required, RTH+ (PIN15) and RTH- (PIN16) from each unit still need to be connected.

I/P: 230 VAC
 O/P: FULL LOAD
 Ta: 25°C
 Test Result :

TEMP	Voltage compensation	Temperature compensation	
		BEFORE	AFTER
(Ta=0°C)	28.8V = +0.90V ±0.24V	29.082	29.946

		(Ta=25°C)	28.8V = 0V	29.082	29.082																																											
		(Ta=50°C)	28.8V = -0.90V ±0.24V	29.084	28.271																																											
10	Charging Curve	<p>※ By factory default, this charger performs the default curve which can be programmed via PMBus. ※ To disable / enable the charging curve, change to a 2 stage curve, a different curve frequently used for certain types of batteries in the industry, and so on, please refer to the Installation Manual.</p> <p>◎ Default 3 stage charging curve</p> <p>3 Stage</p> <p>Color of LED: Orange (stage 1 or 2), Green (stage 3)</p> <p>Status Indicator: Charger fail if charging time exceed charging timeout</p> <p>◎ Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).</p> <p>I/P: 230 VAC O/P: FULL LOAD Ta: 25°C Test Result :</p> <table border="1"> <thead> <tr> <th>MODEL</th> <th>Constant voltage(V_{boost})</th> <th>Float (V_{float})</th> <th>Turn state current</th> </tr> </thead> <tbody> <tr> <td rowspan="2">24V</td> <td>28.8V ± 0.24V</td> <td>27.6V ± 0.24V</td> <td>5.5A ± 1.65A</td> </tr> <tr> <td>28.859V</td> <td>27.646V</td> <td>5.6A</td> </tr> </tbody> </table>				MODEL	Constant voltage(V _{boost})	Float (V _{float})	Turn state current	24V	28.8V ± 0.24V	27.6V ± 0.24V	5.5A ± 1.65A	28.859V	27.646V	5.6A																																
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COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q901 Rated 37A/600V	I/P: High-Line +3V = 267V AC ON/OFF VDS: O/P: (1) Full Load Ta: 25°C	VDS: (1) 469V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q52 Rated 52 A/600 V	I/P: High-Line +3V = 267 V AC ON/OFF O/P: (1) Full Load Ta: 25°C	VDS: (1) 464V
3	Diode Peak Voltage	Q101 Rated 104 A/150 V Q104 Rated 104 A/150 V	I/P: High-Line +3V = 267 V AC ON/OFF O/P: (1) Full Load Ta: 25°C	Q101: VDS: (1) 101.2V Q104: VDS: (1) 100.4V
4	Input Capacitor Voltage	C5 Rated: 680 μ / 400V SURGE VOLTAGE: 450V	I/P: High-Line +3V = 267 V O/P: (1) Full Load	(1) 398V

			Ta:25°C	
5	Control IC Voltage Test	PWM IC U901 Rated 6.5V ~24 V PFC IC U51 Rated 6V ~ 16V	I/P:High-Line +3V =267 V AC ON/OFF O/P(1)FULL LOAD Ta:25°C	U51 (1) 13.8V U901 (1)12.8 V

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:1.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:1.8 KVAC/min Ta:25°C	I/P-O/P:6.77mA I/P-FG:7.63mA O/P-FG:5.84m A NO DAMAGE
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: 30GΩ I/P-FG: 30GΩ O/P-FG: 30GΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	17 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS A	I/P:230VAC/50HZ O/P:100% LOAD Ta:25°C	PASS
2	CONDUCTION	EN55022 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	EN55022 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 INDUSTRY AIR : 8KV / Contact : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	EN61000-4-4 INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	IEC61000-4-5 INDUSTRY L-N : 2KV L,N-PE : 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
7	Test by certified Lab & Test Report Prepare			

■ **RELIABILITY TEST**

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT			
1	TEMPERATURE RISE TEST	MODEL : RPB-1600-24					
		1. ROOM AMBIENT BURN-IN : 1 HRS I/P : 230VAC O/P : FULL LOAD Ta= 28.3 °C					
		2. HIGH AMBIENT BURN-IN : 3 HRS I/P : 230VAC O/P : FULL LOAD Ta= 52.5 °C					
				ROOM AMBIENT Ta= 28.3 °C	HIGH AMBIENT Ta= 52.5 °C		
				1	Q901	48.6°C	72.3°C
				2	Q904	75.5°C	81.5°C
				3	Q52	63.2°C	87.8°C
				4	D50	68.9°C	99.6°C
				5	BD1	58.1°C	85.6°C
				6	L900	45.9°C	68.6°C
				7	T3	37.6°C	61.7°C
				8	RG301	53.9°C	81.7°C
				9	RG302	51.7°C	76.2°C
				10	C302	30.3°C	55.3°C
				11	C355	38.1°C	59.4°C
				12	T1	30.2°C	76.1°C
				13	Q101	47.8°C	76.0°C
				14	Q104	48.7°C	77.2°C
				15	U921	41.9°C	70.4°C
				16	C5	38.4°C	64.2°C
				17	L100	65.7°C	97.8°C
				18	C980	33.4°C	63.9°C
				19	C11	42.8°C	69.2°C
				20	ZNR1	46.0°C	70.9°C
				21	ZNR2	42.3°C	75.6°C
				22	LF1	43.8°C	69.7°C
				23	C2	43.0°C	69.7°C
				24	D2	42.9°C	65.1°C
				25	L1	49.1°C	77.9°C
				26	L2	51.0°C	79.1°C
				27	RY1	45.3°C	71.4°C
				28	C101	47.0°C	73.6°C
				29	T52	37.9°C	65.3°C
				30	RTH21	54.0°C	76.4°C
		31	RTH9	45.3°C	72.3°C		
		32	U671	43.8°C	70.0°C		
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 230VAC/180VAC O/P : 100 % LOAD Ta= -35°C / -30°C	TEST : OK			
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			



4	TEMPERATURE COEFFICIENT	± 0.03 %/°C (0-50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.005 %/°C (0-50°C)
5	STORAGE TEMPERATURE TEST	1. Thermal shock Temperature : -45°C ~ +90°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 5 CYCLE 5. Input/Output condition : STATIC		OK
6	THERMAL SHOCK TEST	1. Thermal shock Temperature : -35°C ~ +55°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST(13500 TIMES) 1cycle:230V/ FULL LOAD Burn In Test		OK
7	VIBRATION TEST	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10-500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 2G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C		TEST : OK
8	CAPACITOR LIFE CYCLE	SUPPOSE C101 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25°C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 50°C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 50°C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 50°C LIFE TIME		(1) 781466HRS (2) 119480HRS (3) 179758HRS (4) 222934HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 154K hrs min. Telcordia SR-332 (Bellcore) ; 100.3K hrs min. MIL-HDBK-217F (25°C)		
10	DMTBF/Accelerated Life Test	Demonstration Mean Time Between Failure (Expected Life): Above 50,000 hours @ TA 50°C		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	DANIEL GAO	SANFORD SU	VINCENT TSENG

12.10.30 A50-F031