



Test Report: LAD-360CU

360W Economical Security/ Fire Alarm PSU with Battery
Charger/UPS

■ 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

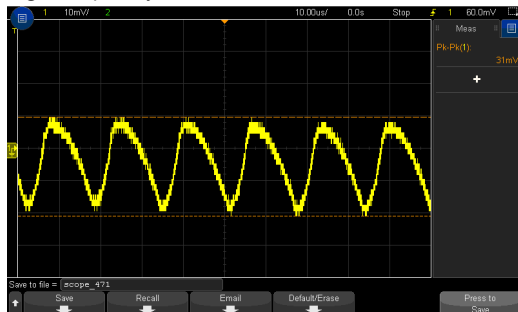
ENVIRONMENT TEST

DESIGN VERIFY TEST

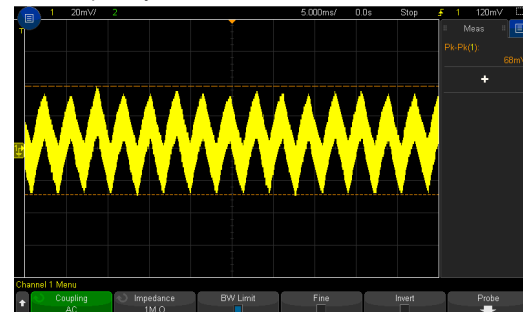
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 32.4V~ 43.5V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	30.917V~44.648V/230VAC 30.927V~44.649V/115VAC
2	OUTPUT VOLTAGE(Max) TOLERANCE	V1: -1% ~ +1 %	I/P: 230VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.065%~ 0.0771%
3	LINE REGULATION (Max)	V1: -0.5 %~ +0.5 %	I/P: 90VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.0266%~ 0.0097%
4	LOAD REGULATION(Max)	V1: -0.5 %~ +0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.065%~ 0.0771%
5	OVER/UNDERSHOOT TEST	< ±5%	I/P: 230VAC O/P:FULL LOAD Ta:25°C	1.2%
6	RIPPLE & NOISE(Max)	V1: 240mVp-p	I/P:230VAC O/P: TESTING LOAD Ta:25°C	V1: 68mVp-p

high frequency :

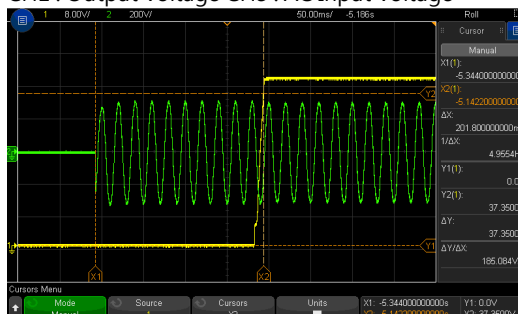


low frequency :

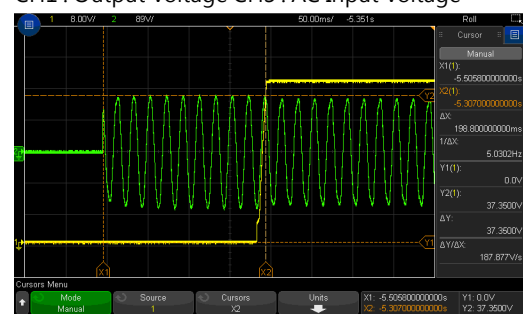


7	SET UP TIME(Max)	230VAC/2000ms 115VAC/2000ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 201.8ms 115VAC/ 198.8ms
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INPUT=230VAC/50HZ @ FULL LOAD
CH1 : Output Voltage CH3 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH3 : AC Input Voltage



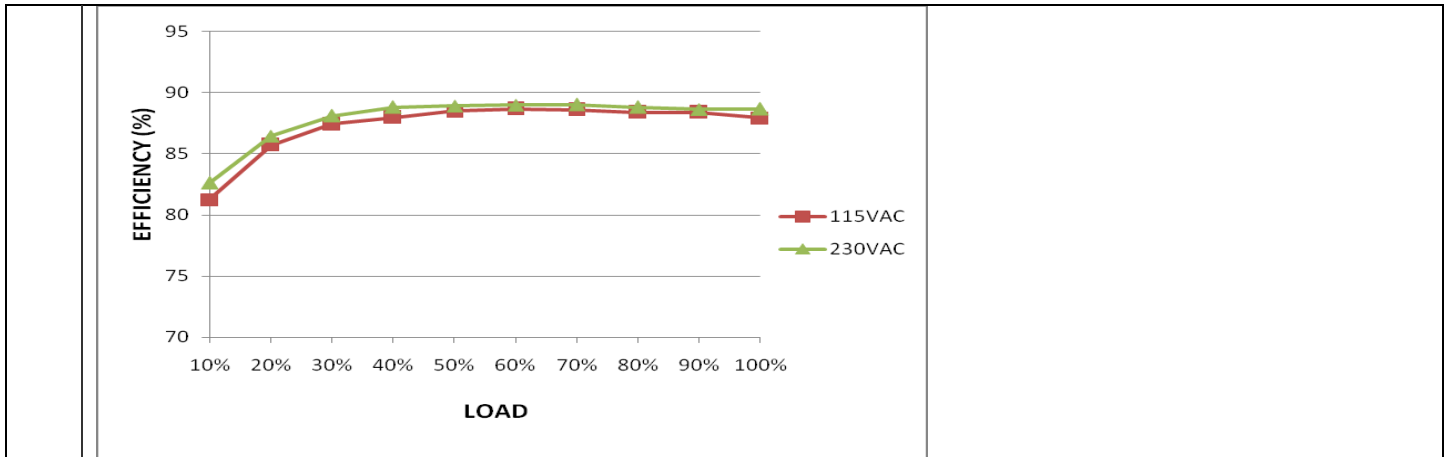
8	RISE TIME (Max)	230VAC/50ms 115VAC/50ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 10.35ms 115VAC/ 10.4ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage		INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage		
9	HOLD UP TIME (Typ.)	230VAC/16ms 115VAC/12ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 20.6ms 115VAC/ 16.6ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH3 : AC Input Voltage		INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH3 : AC Input Voltage		
10	DYNAMIC LOAD	V1: 4150mVp-p	I/P: 230VAC O/P: (1)FULL /MIN LOAD 50%DUTY / 120HZ (2)FULL /MIN LOAD 50%DUTY / 1KHZ Ta:25°C	1750mVp-p 960mVp-p
FULL /MIN LOAD 50%DUTY / 120HZ		FULL /MIN LOAD 50%DUTY / 1KHZ		
11	TRANSIENT RECOVERY TIME	V1: 4150mVp-p	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	715mVp-p



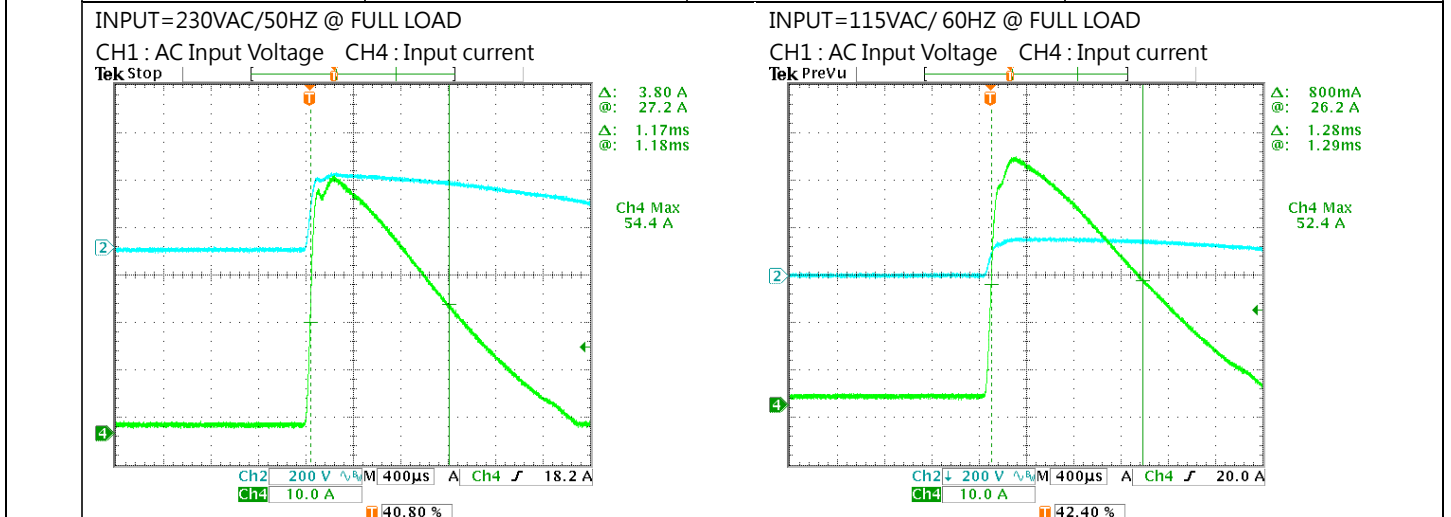
12	Battery static discharge current	After battery low protection <100uA	I/P : 230 VAC O/P : TESTING Ta : 25°C	1.08uA
13	BAT RATED CURRENT	1.5±0.15A	I/P: 230VAC O/P:CV=36V Ta:25°C	1.4306A

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (Default switch at 230VAC)	(1) I/P:TESTING O/P:FULL LOAD/80% LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 80% LOAD (switch on 230VAC) (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 80% LOAD (switch on 230VAC) Ta:25°C	(1) 91.75V~132V/ FULL LOAD 85.06V~132V/ 80% LOAD 165.43V~264V/ FULL LOAD (switch on 230VAC) (2) 230.2Vdc~370Vdc/FULL LOAD 230.2Vdc~370Vdc/80% LOAD (3) 230.2Vdc~370Vdc/FULL LOAD 230.2Vdc~370Vdc/80% LOAD
			I/P: switch on 115VAC : LOW-LINE-3V=87 V HIGH-LINE+15%=150V switch on 230VAC : LOW-LINE-3V=177 V HIGH-LINE+15%=300 VO/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 90 ~ 132VAC / 180 ~ 264VAC by switch O/P:FULL~MIN LOAD Ta:25°C	TEST: OK
3	INPUT CURRENT (Typ.)	230V/ 4 A 115V/8 A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =3.27A/ 230VAC I =6.04A/ 115VAC
4	LEAKAGE CURRENT	< 0.5mA / 240 VAC	I/P : 240 VAC O/P : Min LOAD Ta : 25°C	0.411 mA(PEAK) 0.201 mA (RMS)
5	EFFICIENCY(Typ.)	86.5%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	89.33 %
	EFFICIENCY vs LOAD			



6	INRUSH CURRENT(Typ.)	230V/60A 115V/60A COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =54.4A/ 230VAC T50= 1.17ms/230V I =52.4A/ 115VAC T50= 1.28ms/115V
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	CH1 : 105%~135% CH2 : 90 ~ 110% Protection type : CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed	I/P: 264VAC I/P: 230VAC I/P: 100VAC O/P:TESTING Ta:25°C	121.79%/ 264VAC 120.94%/ 230VAC 120.06%/100VAC Protection type : CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed



		CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)		CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)
2	OVER VOLTAGE PROTECTION	CH1: 47V~55V Protection type : Shut down o/p voltage , re-power on to removed	I/P: 264VAC I/P: 230VAC I/P: 90VAC O/P:MIN LOAD Ta:25°C	50V/ 264VAC 50V/ 230VAC 50V/ 90VAC Protection type : Shut down o/p voltage , re-power on to removed
3	OVER TEMPERATURE PROTECTION	Protection type : Shut down o/p voltage , re-power on to removed	I/P: 264VAC I/P: 90VAC O/P:FULL LOAD	O.T.P. Active OK Protection type : Shut down o/p voltage , re-power on to removed
4	BATTERY CUTOFF	32±0.5V	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	<u>32.11</u> V ,
5	BATTERY REVERSE POLARITY	Protection type : Protected when reverse polarity , no damage, recovers automatically after fault condition is removed	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST : <u>OK</u>

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	AC OK	115VAC Input : Signals AC failure and activates when input voltage <75VAC Recover the main power supply when input voltage >85VAC 230VAC Input : Signals AC failure and activates when input voltage <165VAC Recover the main power supply when input voltage >175VAC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST : (1) 115VAC : ≤ <u>75.93 V</u> AC failure ≥ <u>86.81 V</u> AC OK (2) 230VAC : ≤ <u>165.55 V</u> AC failure ≥ <u>176.09 V</u> AC OK
2	CHARGER CIRCUIT FAIL	Battery disconnected, battery reverse polarity , signal failure	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST: <u>OK</u>



3	BUZZER ALARM	Battery low(fire alarm system selectable by UART) AC fail, Battery low, battery disconnected, battery reverse connect, overload status (evacuation system selectable by UART)	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST: <u>OK</u>
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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	Q 1/Q2 Rated : 18A/ 600 V	AC ON/OFF I/P: High-Line +3V =267V VDS: O/P:(1) Full Load (2) Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C	Q1 Q2 VDS: (1) 495V (2) 534V (3) 495V (4) 494V (5) 494V (6) 494V (7) 494V (1) 510V (2) 589V (3) 510V (4) 510V (5) 506V (6) 510V (7) 526V
2	BAT BUCK Transistor (D to S) or (C to E) Peak Voltage	Q 304 Rated : 53A/100V	AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)=31.5V (3)no load (4)OUTPUT SHORT Ta:25°C	Q304 VDS : (1) 49.1V (2) 48.7V (3) 48.7V (4) 49.1V
3	Diode Peak Voltage	D101 20A/300V D102 20A/400V	AC ON/OFF I/P:High-Line +3V =267V <u>Vo=Vmax</u> O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/	D101: <u>Vo=Vmax</u> VDS: (1) 244V (2) 254V (3) 244V (4) 244V (5) 244V (6) 246V (7) 234V D102: <u>Vo=Vmax</u> VDS: (1) 334V (2) 351V (3) 356V (4) 365V (5) 351V (6) 346V (7) 334V



			<p>Min. Load 90%Duty/5KHz (6)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8)NO LOAD <u>Vo=Vnormal</u> O/P: (1)Full Load Ta:25°C</p>	<p>(8) 212V <u>Vo=Vnormal</u> (1) 240V</p>	<p>(8) 310V <u>Vo=Vnormal</u> (1) 32V</p>
4	BAT BUCK Diode Peak Voltage	D320 Rated : 5A/100V	<p>AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)= 32.4V (3)no load (4)OUTPUT SHORT Ta:25°C</p>	D320 VDS : (1) 42.6V (2) 42.6V (3) 42.2V (4) 42.6V	
5	Input Capacitor Voltage	C5/C6 Rated: : 560 μ / 200 V	<p>I/P:High-Line +3V =267V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta:25°C</p>	C6 (1)198V (2)192V (3)192V (4)194V	C5 (1)198V (2)196V (3)192V (4)192V
6	Control IC Voltage Test	<p>PWM IC U1 Rated 8 V~ 28V MCU IC U300 Rated 2.4V~ 3.6V BAT BUCK IC U304 Rated 8.4V~ 30V</p>	<p>AC ON/OFF U1/U300 I/P:High-Line +3V =267V O/P:(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VRmin(Low LINE) U304 I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)=21V (3)no load (4)OUTPUT SHORT Ta:25°C</p>	<p>U1 (1) 19.4V (2) 19.8V (3) 19.6V (4) 19.4V (5) 19.2V U300 (1) 3.35V (2) 3.35V (3) 3.35V (4) 3.35V (5) 3.35V U304 : (1) 13.45V (2) 13.24V (3) 13.45V (4) 13.54V</p>	

■ SAFETY& E.M.C. TEST

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:0.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C	I/P-O/P: 2.97mA I/P-FG: 2.78mA O/P-FG: 2.65 m 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: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C	I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG: 9999MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 mΩ	40A / 2min Ta:25°C	9 mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONDUCTION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
2	RADIATION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
3	E.S.D	BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 6KV contact	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A □ CRITERIA B
4	E.F.T	BS EN/EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A □ CRITERIA B
5	SURGE	BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Line-FG	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	■ CRITERIA A □ CRITERIA B
6	Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report			

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																																																																																																								
1	TEMPERATURE RISE TEST	MODEL : LAD-360BU 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50 °C																																																																																																																																										
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25 °C</th> <th>HIGH AMBIENT Ta= 50 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH1</td><td>60.9°C</td><td>81.4°C</td></tr> <tr><td>2</td><td>C5</td><td>40.5°C</td><td>62.7°C</td></tr> <tr><td>3</td><td>LF2</td><td>42.1°C</td><td>66.9°C</td></tr> <tr><td>4</td><td>ZNR1</td><td>39.6°C</td><td>64.2°C</td></tr> <tr><td>5</td><td>C1</td><td>40.3°C</td><td>65.0°C</td></tr> <tr><td>6</td><td>Q2</td><td>44.8°C</td><td>72.6°C</td></tr> <tr><td>7</td><td>D10</td><td>34.8°C</td><td>60.6°C</td></tr> <tr><td>8</td><td>BD1</td><td>42.6°C</td><td>67.2°C</td></tr> <tr><td>9</td><td>T2</td><td>32.8°C</td><td>57.2°C</td></tr> <tr><td>10</td><td>Q1</td><td>44.1°C</td><td>71.8°C</td></tr> <tr><td>11</td><td>R18</td><td>46.0°C</td><td>70.3°C</td></tr> <tr><td>12</td><td>U6</td><td>34.8°C</td><td>59.8°C</td></tr> <tr><td>13</td><td>T1coil</td><td>73.3°C</td><td>98.2°C</td></tr> <tr><td>14</td><td>T1core</td><td>46.2°C</td><td>71.1°C</td></tr> <tr><td>15</td><td>D102</td><td>71.3°C</td><td>94.8°C</td></tr> <tr><td>16</td><td>D101</td><td>52.4°C</td><td>77.4°C</td></tr> <tr><td>17</td><td>U301</td><td>43.1°C</td><td>68.4°C</td></tr> <tr><td>18</td><td>U300</td><td>42.0°C</td><td>67.2°C</td></tr> <tr><td>19</td><td>U305</td><td>41.4°C</td><td>66.7°C</td></tr> <tr><td>20</td><td>L100</td><td>70.2°C</td><td>96.9°C</td></tr> <tr><td>21</td><td>C37</td><td>31.9°C</td><td>56.5°C</td></tr> <tr><td>22</td><td>Q200</td><td>60.6°C</td><td>84.2°C</td></tr> <tr><td>23</td><td>L101</td><td>45.9°C</td><td>70.9°C</td></tr> <tr><td>24</td><td>C110</td><td>41.6°C</td><td>66.3°C</td></tr> <tr><td>25</td><td>RTH3</td><td>60.3°C</td><td>86.0°C</td></tr> <tr><td>26</td><td>C108</td><td>47.0°C</td><td>72.1°C</td></tr> <tr><td>27</td><td>C105</td><td>46.5°C</td><td>71.4°C</td></tr> <tr><td>28</td><td>C367</td><td>45.8°C</td><td>71.0°C</td></tr> <tr><td>29</td><td>Q305</td><td>43.1°C</td><td>68.3°C</td></tr> <tr><td>30</td><td>U500</td><td>58.9°C</td><td>84.7°C</td></tr> <tr><td>31</td><td>R112</td><td>71.5°C</td><td>79.7°C</td></tr> <tr><td>32</td><td>L301</td><td>43.6°C</td><td>69.2°C</td></tr> <tr><td>33</td><td>J107</td><td>51.7°C</td><td>76.8°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta= 25 °C	HIGH AMBIENT Ta= 50 °C	1	RTH1	60.9°C	81.4°C	2	C5	40.5°C	62.7°C	3	LF2	42.1°C	66.9°C	4	ZNR1	39.6°C	64.2°C	5	C1	40.3°C	65.0°C	6	Q2	44.8°C	72.6°C	7	D10	34.8°C	60.6°C	8	BD1	42.6°C	67.2°C	9	T2	32.8°C	57.2°C	10	Q1	44.1°C	71.8°C	11	R18	46.0°C	70.3°C	12	U6	34.8°C	59.8°C	13	T1coil	73.3°C	98.2°C	14	T1core	46.2°C	71.1°C	15	D102	71.3°C	94.8°C	16	D101	52.4°C	77.4°C	17	U301	43.1°C	68.4°C	18	U300	42.0°C	67.2°C	19	U305	41.4°C	66.7°C	20	L100	70.2°C	96.9°C	21	C37	31.9°C	56.5°C	22	Q200	60.6°C	84.2°C	23	L101	45.9°C	70.9°C	24	C110	41.6°C	66.3°C	25	RTH3	60.3°C	86.0°C	26	C108	47.0°C	72.1°C	27	C105	46.5°C	71.4°C	28	C367	45.8°C	71.0°C	29	Q305	43.1°C	68.3°C	30	U500	58.9°C	84.7°C	31	R112	71.5°C	79.7°C	32	L301	43.6°C	69.2°C	33	J107	51.7°C	76.8°C
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17	U301	43.1°C	68.4°C																																																																																																																																									
18	U300	42.0°C	67.2°C																																																																																																																																									
19	U305	41.4°C	66.7°C																																																																																																																																									
20	L100	70.2°C	96.9°C																																																																																																																																									
21	C37	31.9°C	56.5°C																																																																																																																																									
22	Q200	60.6°C	84.2°C																																																																																																																																									
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 118.9%LOAD Ta : 25°C	TEST : OK																																													
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 264VAC/100VAC O/P : 100 %LOAD Ta= -25°C	TEST : OK																																													
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C/95 %R.H NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 51 °C HUMIDITY= 95 %R.H	TEST : OK																																													
5	TEMPERATURE COEFFICIENT	±0.03%/°C(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	±0.0078%/°C(0~50°C)																																													
6	STORAGE TEMPERATURE TEST	-30~85°C	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 : 10 CYCLE 5. Input/Output condition : STATIC																																														
7	THERMAL SHOCK TEST	-20~50°C	1. Thermal shock Temperature : -25°C~ +55°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 16 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test																																														
8	VIBRATION TEST	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 6G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C																																														
9	CAPACITOR LIFE CYCLE	SUPPOSE C110 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) 817914.2HRS (2) 143589.4HRS (3) 237752.2HRS (4) 332834.6HRS																																													



10	MTBF	Conducted by Parts Stress Analysis Prediction 1160.5K hrs min. Telcordia SR-332 (Bellcore) ; 126.5K hrs min. MIL-HDBK-217F (25°C)
11	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 30,000 hours

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Yuwei	Liutt	WangDZ

2020.10.1 TAG-QA-009