



# Test Report: XLN-40-12

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## 40W Constant Voltage LED Driver

### ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

### ■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

### ■ RELIABILITY TEST

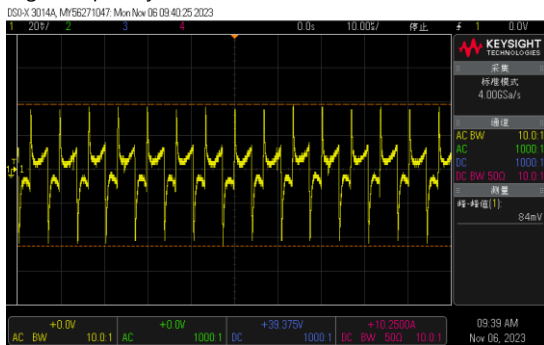
ENVIRONMENT TEST

DESIGN VERIFY TEST

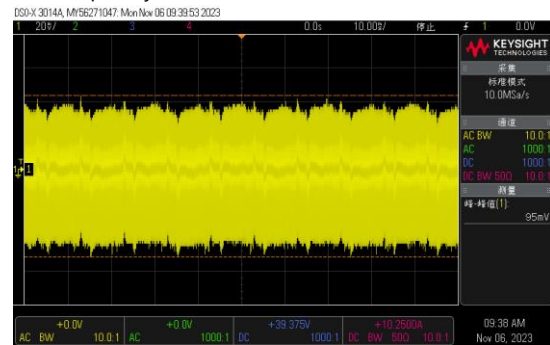
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE TOLERANCE	V1: -4% ~ 4%	I/P:100VAC /305AC O/P:FULL/ MIN LOAD Ta:25°C	V1: -0.08%~1.17%
2	LINE REGULATION	V1: -0.5% ~ 0.5%	I/P:100VAC~305AC O/P:FULL LOAD Ta:25°C	V1: -0.0%~0.0%
3	LOAD REGULATION	V1: -5% ~ 5%	I/P: 230 VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.50%~0.58%
4	OVER/UNDERSHOOT TEST	< ± 5%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	TEST: 2.25 %
5	RIPPLE & NOISE (Max)	V1: 120mVp-p	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	V1: 95mVp-p

high frequency :

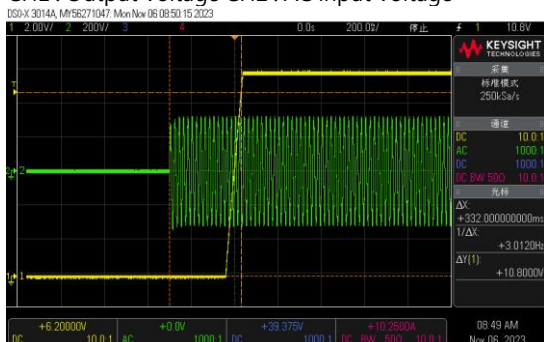


low frequency :

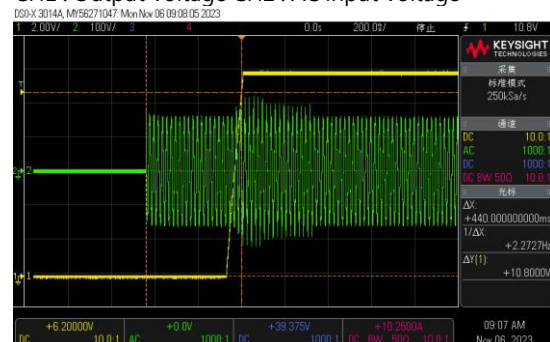


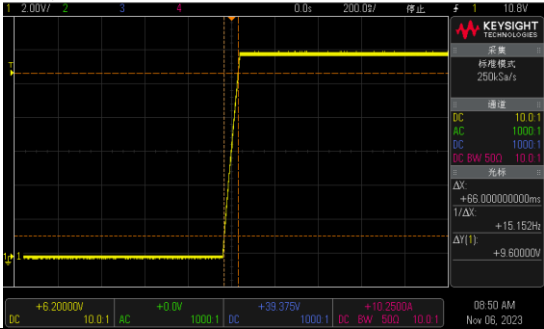
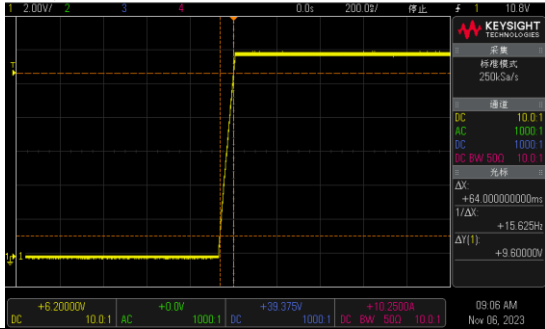
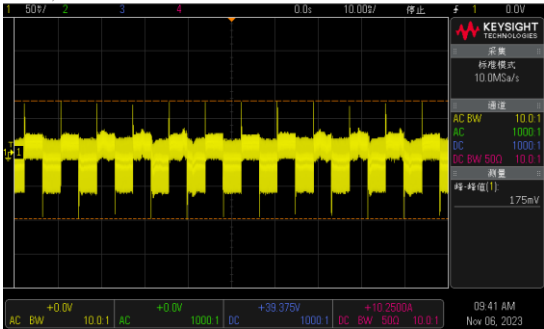
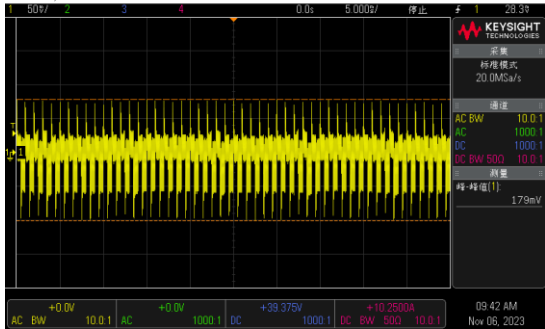
6	SET UP TIME (Max)	230VAC/500ms 115VAC/1000ms	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	230VAC/332ms 115 VAC/440ms
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INPUT=230VAC/50HZ @ FULL LOAD  
CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD  
CH1 : Output Voltage CH2 : AC Input Voltage

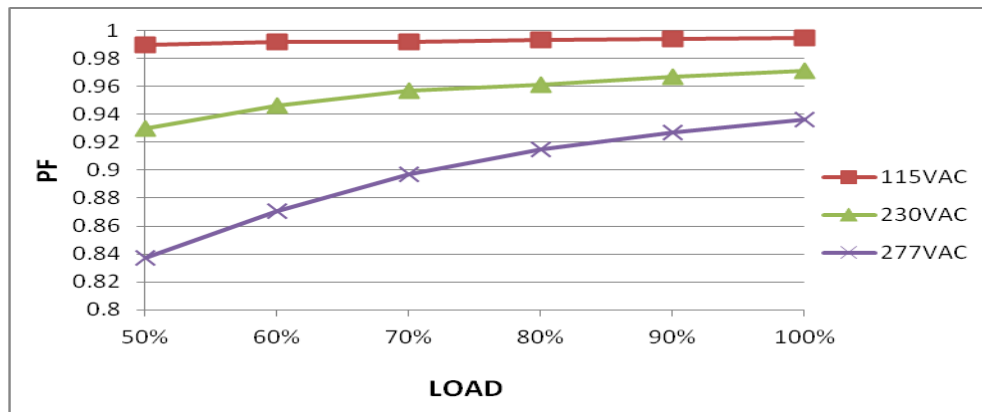


7	RISE TIME (Max)	230VAC/100ms 115VAC/100ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta:25°C CCH MODE TEST	230VAC/66ms 115 VAC/64ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage 		INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage 		
8	DYNAMIC LOAD	V1:1200mVp-p	I/P: 230VAC O/P: (1) FULL /50% LOAD 50%DUTY / 120HZ (2) FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	175mVp-p  179mVp-p
FULL /50% LOAD 50%DUTY / 120HZ 		FULL /50% LOAD 50%DUTY / 1KHZ 		

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC~305 VAC 141VDC~400VDC	(1) I/P: TESTING O/P: FULL LOAD (2) I/P: DC TESTING (L: + N:-) O/P: FULL / 50% LOAD (3) I/P: DC TESTING (L: - N: +) O/P: FULL / 50% LOAD Ta:25°C	(1) 97V~308V (2) 141Vdc~431Vdc/FULL LOAD 141Vdc~431Vdc/50% LOAD (3) 141Vdc~431Vdc/FULL LOAD 141Vdc~431Vdc/50% LOAD
			I/P: LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/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: 100 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C	TEST:OK
3	INPUT CURRENT (TYP)	277VAC/0.2A 230 VAC/0.25A 115 VAC/ 0.5A	I/P: 277VAC/230 VAC/115 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	I= 0.118A/277VAC I =0.210A/ 230VAC I =0.420A/ 115VAC
4	LEAKAGE CURRENT	<0.75mA / 277 VAC	I/P : 277VAC O/P : Min LOAD Ta : 25°C	L-FG:0.013mA N-FG:0.012mA
5	POWER FACTOR(TYP)	0.95/230 VAC FULL LOAD 0.97/115 VAC FULL LOAD 0.92/277 VAC FULL LOAD	I/P: 230 VAC/115VAC/277VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	PF=0.971/230V/100%LOAD PF= 0.995/115V/100%LOAD PF= 0.936/277V/100%LOAD

P.F vs LOAD



6	EFFICIENCY (TYP)	86%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	86.03%																																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC (%)</th> <th>230VAC (%)</th> <th>277VAC (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>75</td><td>74</td><td>73</td></tr> <tr><td>20%</td><td>80</td><td>79</td><td>78</td></tr> <tr><td>30%</td><td>82</td><td>81</td><td>80</td></tr> <tr><td>40%</td><td>83</td><td>82</td><td>81</td></tr> <tr><td>50%</td><td>84</td><td>83</td><td>82</td></tr> <tr><td>60%</td><td>84</td><td>84</td><td>83</td></tr> <tr><td>70%</td><td>84</td><td>84</td><td>84</td></tr> <tr><td>80%</td><td>84</td><td>84</td><td>84</td></tr> <tr><td>90%</td><td>84</td><td>84</td><td>84</td></tr> <tr><td>100%</td><td>84</td><td>84</td><td>84</td></tr> </tbody> </table>					LOAD (%)	115VAC (%)	230VAC (%)	277VAC (%)	10%	75	74	73	20%	80	79	78	30%	82	81	80	40%	83	82	81	50%	84	83	82	60%	84	84	83	70%	84	84	84	80%	84	84	84	90%	84	84	84	100%	84	84	84
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7	INRUSH CURRENT (TYP)	230 V/10A  COLD START (twidth=100 us measured at 50% Ipeak) COLD START	I/P: 230 VAC 115VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	I = 4.63A/ 230VAC  T50= 32 us																																												
<p>INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH4 : Input current (1V=1A)</p> <p>KEYSIGHT TECHNOLOGIES AC BW 10.01 AC 1000.1 DC 1000.1 DC BW 500 10.0.1 ΔX +32.000000us 1/ΔX +31.250kHz ΔY(1) +2.32500A</p>																																																
8	TOTAL HARMONIC DISTORTION	THD < 10%(@load ≥ 50%/230VAC; @load ≥ 75%/277VAC); THD < 15%@load 50%/115VAC	I/P : 115VAC/230VAC/277VAC O/P : 50% /75% LOAD Ta : 25°C	THD : 7.22% 230VAC 50% THD : 7.04% 277VAC 75% THD : 6.35% 115VAC 50%																																												
<p>THD&amp;LOAD</p> <table border="1"> <caption>THD &amp; Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC (%)</th> <th>230VAC (%)</th> <th>277VAC (%)</th> </tr> </thead> <tbody> <tr><td>50%</td><td>6.35</td><td>7.22</td><td>9.00</td></tr> <tr><td>60%</td><td>5.00</td><td>6.80</td><td>8.80</td></tr> <tr><td>70%</td><td>7.00</td><td>6.00</td><td>7.20</td></tr> <tr><td>80%</td><td>6.50</td><td>7.50</td><td>7.00</td></tr> <tr><td>90%</td><td>5.80</td><td>6.80</td><td>7.50</td></tr> <tr><td>100%</td><td>6.50</td><td>7.00</td><td>7.00</td></tr> </tbody> </table>					LOAD (%)	115VAC (%)	230VAC (%)	277VAC (%)	50%	6.35	7.22	9.00	60%	5.00	6.80	8.80	70%	7.00	6.00	7.20	80%	6.50	7.50	7.00	90%	5.80	6.80	7.50	100%	6.50	7.00	7.00																
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**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	105%~ 220%	I/P: 305VAC I/P: 230VAC I/P: 100VAC O/P:TESTING Ta:25°C	147.65%/ 305VAC 147.35%/ 230VAC 121.76%/ 100VAC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	V1: 13V~16V	I/P: 308VAC I/P: 230VAC I/P: 100VAC O/P:MIN LOAD Ta:25°C	14.7V/ 308VAC 14.7V/ 230VAC 14.7V/100VAC PROTECTION TYPE : Shut down and latch off o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305 VAC I/P: 100VAC O/P:FULL LOAD	O.T.P Active OK PROTECTION TYPE : Shut down output voltage, recovers automatically after fault condition is remove
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 308VAC I/P: 100VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed

**COMPONENT STRESS TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor ( D to S) or (C to E) <b>Peak Voltage</b>	Q1 Rated 800V/10A	AC ON/OFF I/P: High-Line +3V =308V 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.  I/P: Low-Line -3V = 97V 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	VDS: (1) 676V (2) 701V (3) 672V (4) 672V (5) 668V (6) 692V (7) 735V  VDS: (1) 407V (2) 415V (3) 407V (4) 407V (5) 411V (6) 424V (7) 387V
2	Diode Peak Voltage	D101 Rated 20A/200V	AC ON/OFF I/P: High-Line +3V =308 V 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. (8).NO LOAD  Ta:25°C	D101: VDS: (1) 143V (2) 149V (3) 141V (4) 143V (5) 141V (6) 145V (7) 167V (8) 159V

3	Control IC Voltage Test	<p>U1 Rated 7V~18V</p> <p>U100 Rated 6V~75V</p>	<p>AC ON/OFF I/P: High-Line +3V =308 V FOR C.V MODE TYPE O/P (1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P. (5) NO LOAD VRmin.LOW LINE Ta:25°C</p>	<table border="0"> <tr> <td>U1</td> <td>U100</td> </tr> <tr> <td>(1) 15.9V</td> <td>(1)29.1V</td> </tr> <tr> <td>(2) 14.7V</td> <td>(1) 26.8V</td> </tr> <tr> <td>(3) 14.9V</td> <td>(2) 25.8V</td> </tr> <tr> <td>(4) 14.7V</td> <td>(3) 25.6V</td> </tr> <tr> <td>(5) 13.1V</td> <td>(4) 25.8V</td> </tr> </table>	U1	U100	(1) 15.9V	(1)29.1V	(2) 14.7V	(1) 26.8V	(3) 14.9V	(2) 25.8V	(4) 14.7V	(3) 25.6V	(5) 13.1V	(4) 25.8V
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(4) 14.7V	(3) 25.6V															
(5) 13.1V	(4) 25.8V															
4	Clamp Diode Peak Voltage	D10 Rated : 1000V/1A	<p>AC ON/OFF  I/P : High-Line +3V = 308 V O/P : (1) Dynamic Load 90%Duty/1KHz (2) Full load continue Ta : 25°C</p>	<p>(1)633V (2)637V</p>												
5	Buck Diode Peak Voltage MOS	Q110 Rated : 60V /47A	<p>AC ON/OFF I/P : High-Line +3V = 308 V 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</p>	<p>(1)41.8V (2)42.6V (3)41.4V (4)41.4V (5)41.4V (6)39.4V (7)40.2V</p>												
6	Buck Diode Peak Voltage	Q111 Rated : 60V/47A	<p>AC ON/OFF I/P : High-Line +3V = 308 V 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</p>	<p>(1)33.0V (2)38.2V (3)33.0V (4)35.8V (5)35.8V (6)37.8V (7)38.2V</p>												



**SAFETY & EMC TEST REPORT**

**SAFETY TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min	I/P-O/P: 4.125 KVAC/min Ta:25°C	I/P-O/P: 1.58mA  NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P: 500 VDC Ta:25°C	I/P-O/P: >9999MΩ  NO DAMAGE

**E.M.C TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS C	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS  Test by certified Lab
3	RADIATION	EN55015	I/P: 230 VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS  Test by certified Lab
4	E.S.D	EN61000-4-2 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 INPUT: 1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 L-N :1KV	I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A
7	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 : XLN-40-12 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=25.4 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=51.3 °C																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=25.4 °C</th> <th>HIGH AMBIENT Ta=51.3 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR2</td><td>67.0°C</td><td>90.7°C</td></tr> <tr><td>2</td><td>BD1</td><td>66.8°C</td><td>89.9°C</td></tr> <tr><td>3</td><td>C4</td><td>68.0°C</td><td>91.8°C</td></tr> <tr><td>4</td><td>C20</td><td>65.5°C</td><td>89.0°C</td></tr> <tr><td>5</td><td>Q1</td><td>84.3°C</td><td>109.4°C</td></tr> <tr><td>6</td><td>U1</td><td>73.7°C</td><td>96.9°C</td></tr> <tr><td>7</td><td>D10</td><td>83.9°C</td><td>109.0°C</td></tr> <tr><td>8</td><td>R38</td><td>78.8°C</td><td>102.8°C</td></tr> <tr><td>9</td><td>T1</td><td>77.1°C</td><td>101.2°C</td></tr> <tr><td>10</td><td>D101</td><td>91.8°C</td><td>114.9°C</td></tr> <tr><td>11</td><td>Q110</td><td>82.5°C</td><td>106.9°C</td></tr> <tr><td>12</td><td>Q111</td><td>81.5°C</td><td>105.6°C</td></tr> <tr><td>13</td><td>Q120</td><td>77.4°C</td><td>100.8°C</td></tr> <tr><td>14</td><td>L100</td><td>82.0°C</td><td>106.9°C</td></tr> <tr><td>15</td><td>C101</td><td>77.8°C</td><td>101.7°C</td></tr> <tr><td>16</td><td>C201</td><td>70.8°C</td><td>94.8°C</td></tr> <tr><td>17</td><td>RTH3</td><td>67.0°C</td><td>90.9°C</td></tr> <tr><td>18</td><td>U100</td><td>77.3°C</td><td>101.4°C</td></tr> <tr><td>19</td><td>TC</td><td>61.3°C</td><td>85.9°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=25.4 °C	HIGH AMBIENT Ta=51.3 °C	1	ZNR2	67.0°C	90.7°C	2	BD1	66.8°C	89.9°C	3	C4	68.0°C	91.8°C	4	C20	65.5°C	89.0°C	5	Q1	84.3°C	109.4°C	6	U1	73.7°C	96.9°C	7	D10	83.9°C	109.0°C	8	R38	78.8°C	102.8°C	9	T1	77.1°C	101.2°C	10	D101	91.8°C	114.9°C	11	Q110	82.5°C	106.9°C	12	Q111	81.5°C	105.6°C	13	Q120	77.4°C	100.8°C	14	L100	82.0°C	106.9°C	15	C101	77.8°C	101.7°C	16	C201	70.8°C	94.8°C	17	RTH3	67.0°C	90.9°C	18	U100	77.3°C	101.4°C	19	TC	61.3°C	85.9°C
NO	Position	ROOM AMBIENT Ta=25.4 °C	HIGH AMBIENT Ta=51.3 °C																																																																																	
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8	R38	78.8°C	102.8°C																																																																																	
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17	RTH3	67.0°C	90.9°C																																																																																	
18	U100	77.3°C	101.4°C																																																																																	
19	TC	61.3°C	85.9°C																																																																																	
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )	I/P : 230 VAC O/P : 142.44 % LOAD Ta : 25°C	TEST : OK																																																																																
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/110VAC O/P : 100 % LOAD Ta=-30 °C	TEST : OK																																																																																
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta=50 °C HUMIDITY= 95 %R.H	TEST : OK																																																																																
5	TEMPERATURE COEFFICIENT	± 0.03 %(0°C~50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.01 %(0~50°C)																																																																																

6	STORAGE TEMPERATURE TEST	-40~80°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 : 10CYCLE 5. Input/output condition : STATIC TEST : OK
7	THERMAL SHOCK TEST	-25~50°C	1. Thermal shock Temperature : -30°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, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 10min/sweep cycle (4) Acceleration : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C101 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Tc=75 °C LIFE TIME (2) I/P : 230VAC O/P : 75% LOAD Tc=75 °C LIFE TIME (3) I/P : 230VAC O/P : 50% LOAD Tc=75 °C LIFE TIME	(1) 24063HRS (2) 44049HRS (3) 67077HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 3935.2K hrs min. Telcordia SR-332 (Bellcore) ; 342.9K 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 : 50,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/HUANGMK	WENF	LINKX

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