



# Test Report: XLN-40-24

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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

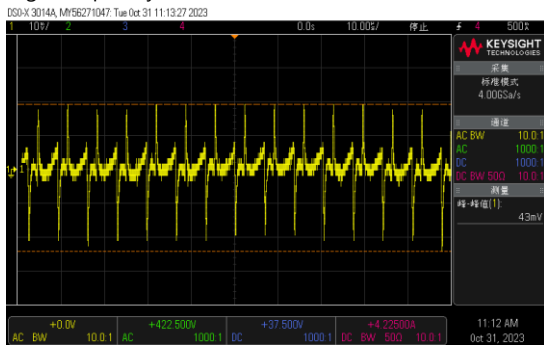
ENVIRONMENT TEST

DESIGN VERIFY TEST

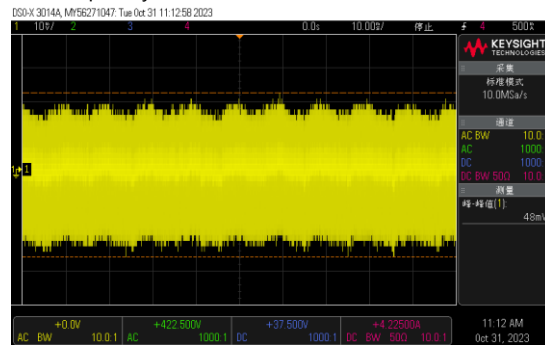
OUTPUT FUNCTION TEST

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: 0.00%~0.37%
2	LINE REGULATION	V1: -0.5% ~ 0.5%	I/P:100VAC~305AC O/P:FULL LOAD Ta:25°C	V1: 0.00%~0.04%
3	LOAD REGULATION	V1: -2% ~ 2%	I/P: 230 VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.21%~0.17%
4	OVER/UNDERSHOOT TEST	< ± 5%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C <b>CCH MODE TEST</b>	TEST: 0.71%
5	RIPPLE & NOISE (Max)	V1: 240mVp-p	I/P: 230 VAC O/P:FULL LOAD Ta:25°C <b>CCH MODE TEST</b>	V1: 48mVp-p

high frequency :

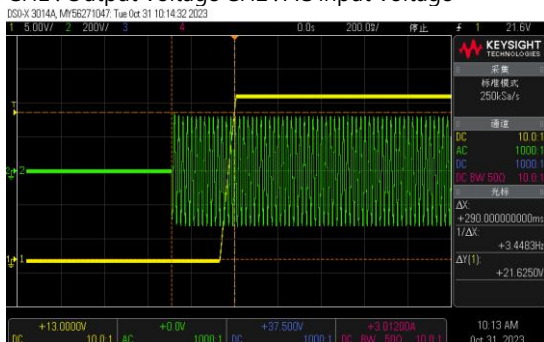


low frequency :



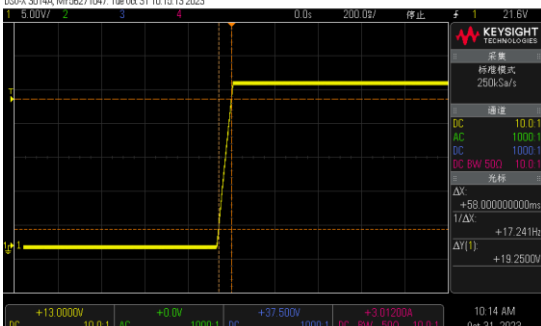
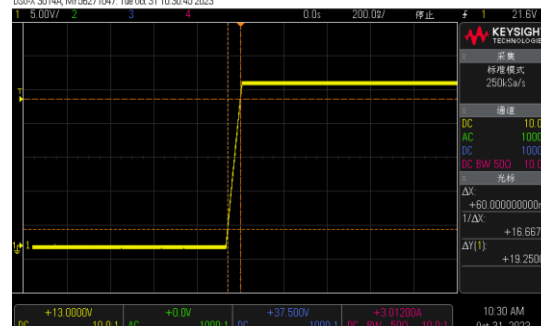
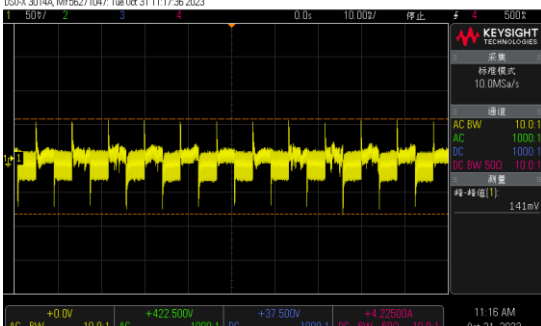

6	SET UP TIME (Max)	230VAC/500ms 115VAC/1000ms	I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C <b>CCH MODE TEST</b>	230VAC/290ms 115 VAC/438ms
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INPUT=230VAC/50HZ @ FULL LOAD  
CH1 : Output Voltage CH2 : AC Input Voltage



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

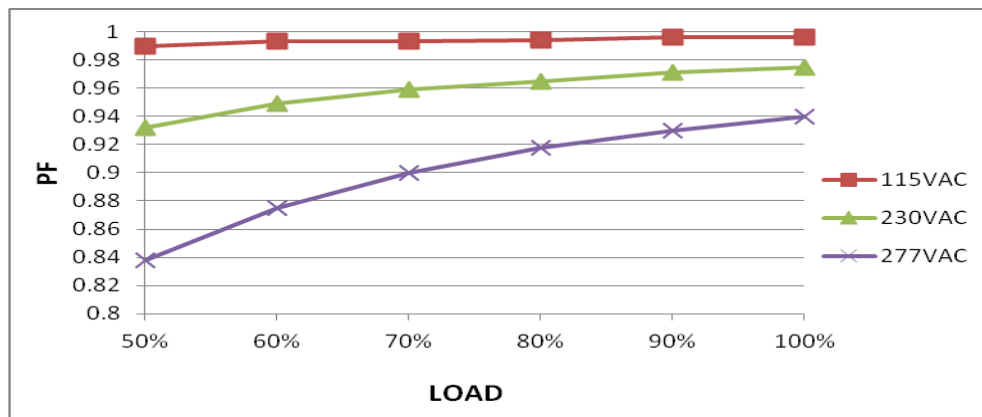


7	RISE TIME (Max)	230VAC/100ms 115VAC/100ms	I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta:25°C CCH MODE TEST	230VAC/58ms 115 VAC/60ms
<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1 : Output Voltage</p> 		<p>INPUT=115VAC/60HZ @ FULL LOAD</p> <p>CH1 : Output Voltage</p> 		
8	DYNAMIC LOAD	V1:2400mVp-p	I/P: 230VAC O/P: (1) FULL /50% LOAD 50%DUTY / 120HZ (2) FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C	141mVp-p 124mVp-p
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> 		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> 		

**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=0.170A/277VAC I =0.200A/ 230VAC I =0.400A/ 115VAC
4	LEAKAGE CURRENT	<0.75mA / 277 VAC	I/P : 277VAC O/P : Min LOAD Ta : 25°C	L-FG:0.028mA N-FG:0.025mA
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=0.975/230V/100%LOAD PF= 0.996 /115V/100%LOAD PF= 0.940/277V/100%LOAD

P.F vs LOAD



6	EFFICIENCY (TYP)	88%	I/P: 230 VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	88.3%																																												
<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>72</td><td>70</td><td>70</td></tr> <tr><td>20%</td><td>78</td><td>75</td><td>75</td></tr> <tr><td>30%</td><td>82</td><td>80</td><td>80</td></tr> <tr><td>40%</td><td>84</td><td>83</td><td>83</td></tr> <tr><td>50%</td><td>85</td><td>85</td><td>85</td></tr> <tr><td>60%</td><td>86</td><td>86</td><td>86</td></tr> <tr><td>70%</td><td>87</td><td>87</td><td>87</td></tr> <tr><td>80%</td><td>87.5</td><td>87.5</td><td>87.5</td></tr> <tr><td>90%</td><td>88</td><td>88</td><td>88</td></tr> <tr><td>100%</td><td>88.3</td><td>88.3</td><td>88.3</td></tr> </tbody> </table>					LOAD (%)	115VAC (%)	230VAC (%)	277VAC (%)	10%	72	70	70	20%	78	75	75	30%	82	80	80	40%	84	83	83	50%	85	85	85	60%	86	86	86	70%	87	87	87	80%	87.5	87.5	87.5	90%	88	88	88	100%	88.3	88.3	88.3
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90%	88	88	88																																													
100%	88.3	88.3	88.3																																													
7	INRUSH CURRENT (TYP)	230 V/10A  COLD START (twidh=100 us measured at 50% Ipeak) COLD START	I/P: 230 VAC 115VAC O/P:FULL LOAD Ta:25°C CCH MODE TEST	I = 4.55 A/ 230VAC/6  T50= 38 us																																												
<p>INPUT=230VAC/50HZ @ FULL LOAD CH2 : AC Input Voltage CH4 : Input current (1V=1A)</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 : 7.04% 230VAC 50% THD : 6.81% 277VAC 75% THD : 6.35% 115VAC 50%																																												
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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	140.58%/ 305VAC 135.29%/ 230VAC 132.35%/ 100VAC PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	V1: 26V~32V	I/P: 308VAC I/P: 230VAC I/P: 100VAC O/P:MIN LOAD Ta:25°C	28.5V/ 308VAC 28.5V/ 230VAC 28.5V/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) 681V (2) 713V (3) 673V (4) 673V (5) 673V (6) 669V (7) 735V  VDS: (1) 406V (2) 402V (3) 402V (4) 402V (5) 398V (6) 370V (7) 382V
2	<b>Diode Peak Voltage</b>	D101 Rated 10A/400V	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: (1) 219V (2) 221V (3) 221V (4) 219V (5) 219V (6) 219V (7) 255V (8) 273V

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) 17.2V</td> <td>(1)40.2V</td> </tr> <tr> <td>(2) 14.9V</td> <td>(1) 39.0V</td> </tr> <tr> <td>(3) 14.9V</td> <td>(2) 39.4V</td> </tr> <tr> <td>(4) 15.1V</td> <td>(3) 39.0V</td> </tr> <tr> <td>(5) 13.0V</td> <td>(4) 40.2V</td> </tr> </table>	U1	U100	(1) 17.2V	(1)40.2V	(2) 14.9V	(1) 39.0V	(3) 14.9V	(2) 39.4V	(4) 15.1V	(3) 39.0V	(5) 13.0V	(4) 40.2V
U1	U100															
(1) 17.2V	(1)40.2V															
(2) 14.9V	(1) 39.0V															
(3) 14.9V	(2) 39.4V															
(4) 15.1V	(3) 39.0V															
(5) 13.0V	(4) 40.2V															
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)623V (2)627V</p>												
5	Buck Diode Peak Voltage MOS	Q110 Rated : 100V /35A	<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)48.6V (2)58.2V (3)48.6 V (4)48.2V (5)48.6V (6)50.2V (7)50.6V</p>												
6	Buck Diode Peak Voltage	Q111 Rated : 100V/35A	<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)45.4V (2)55.4V (3)47.0V (4)47.8V (5)47.0V (6)48.6V (7)49.0V</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: 2.225mA  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-40-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=28.9 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=53.1 °C																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=28.9 °C</th> <th>HIGH AMBIENT Ta=53.1 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR2</td><td>62.5°C</td><td>86.6°C</td></tr> <tr><td>2</td><td>BD1</td><td>64.0°C</td><td>87.7°C</td></tr> <tr><td>3</td><td>C4</td><td>65.0°C</td><td>89.1°C</td></tr> <tr><td>4</td><td>C20</td><td>61.6°C</td><td>85.4°C</td></tr> <tr><td>5</td><td>Q1</td><td>73.7°C</td><td>98.5°C</td></tr> <tr><td>6</td><td>U1</td><td>67.9°C</td><td>91.5°C</td></tr> <tr><td>7</td><td>D10</td><td>76.7°C</td><td>101.7°C</td></tr> <tr><td>8</td><td>R38</td><td>71.3°C</td><td>95.5°C</td></tr> <tr><td>9</td><td>T1</td><td>70.3°C</td><td>94.3°C</td></tr> <tr><td>10</td><td>D101</td><td>78.4°C</td><td>102.0°C</td></tr> <tr><td>11</td><td>Q110</td><td>72.0°C</td><td>96.1°C</td></tr> <tr><td>12</td><td>Q111</td><td>73.3°C</td><td>97.2°C</td></tr> <tr><td>13</td><td>Q120</td><td>71.0°C</td><td>94.8°C</td></tr> <tr><td>14</td><td>L100</td><td>71.3°C</td><td>95.5°C</td></tr> <tr><td>15</td><td>C101</td><td>68.7°C</td><td>92.4°C</td></tr> <tr><td>16</td><td>C201</td><td>59.5°C</td><td>83.1°C</td></tr> <tr><td>17</td><td>RTH3</td><td>60.5°C</td><td>84.0°C</td></tr> <tr><td>18</td><td>U100</td><td>71.0°C</td><td>94.9°C</td></tr> <tr><td>19</td><td>TC</td><td>60.4°C</td><td>83.0°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=28.9 °C	HIGH AMBIENT Ta=53.1 °C	1	ZNR2	62.5°C	86.6°C	2	BD1	64.0°C	87.7°C	3	C4	65.0°C	89.1°C	4	C20	61.6°C	85.4°C	5	Q1	73.7°C	98.5°C	6	U1	67.9°C	91.5°C	7	D10	76.7°C	101.7°C	8	R38	71.3°C	95.5°C	9	T1	70.3°C	94.3°C	10	D101	78.4°C	102.0°C	11	Q110	72.0°C	96.1°C	12	Q111	73.3°C	97.2°C	13	Q120	71.0°C	94.8°C	14	L100	71.3°C	95.5°C	15	C101	68.7°C	92.4°C	16	C201	59.5°C	83.1°C	17	RTH3	60.5°C	84.0°C	18	U100	71.0°C	94.9°C	19	TC	60.4°C	83.0°C
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19	TC	60.4°C	83.0°C																																																																																	
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR ( MIN )	I/P : 230 VAC O/P : 136.52 % 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	± 0.002 %(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) 50856HRS (2) 69923HRS (3) 81311HRS
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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