



# Test Report: SLD-80-12

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80W Constant Voltage+ Constant Current 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

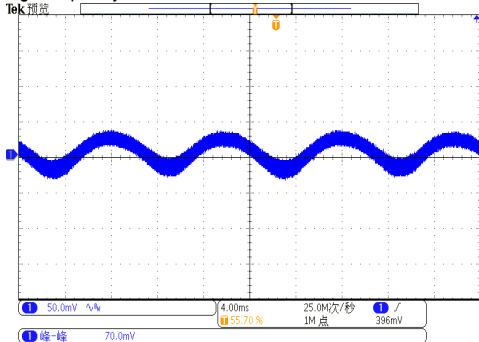
Environment Test

DESIGN VERIFY TEST

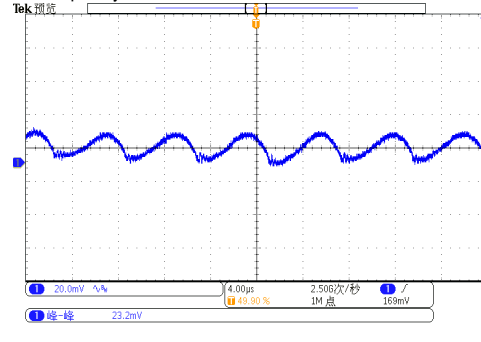
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	8.4V~12V	I/P: 230VAC O/P: LED MODE Ta: 25°C	6.2V~ 12 V
2	VOLTAGE TOLERANCE	-4%~+4%	I/P: 90VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0%~ 0.17%
3	LINE REGULATION	-0.5%~+0.5%	I/P: 90VAC ~ 305VAC O/P: FULL LOAD Ta: 25°C	0%~0 %
4	LOAD REGULATION	-1.5%~+1.5%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.0%~ 0.17%
5	OVER/UNDERSHOOT TEST	<±5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	±2.013%
6	RIPPLE & NOISE (Max)	150mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	70mVp-p

high frequency :



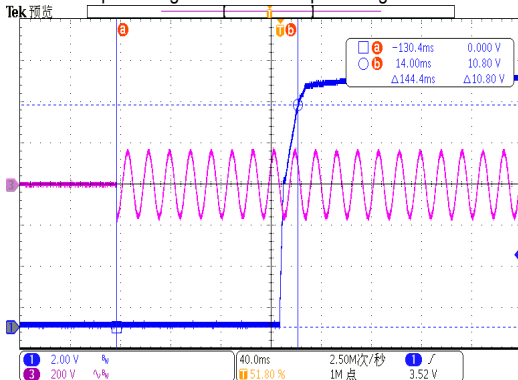
low frequency :



7	SET UP TIME(Max)	115VAC/500ms 230VAC/ 500ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 144.4 ms 230VAC/ 119.2 ms
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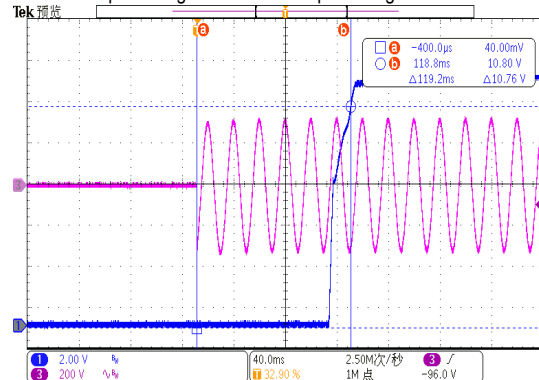
INPUT=115VAC/50HZ @ FULL LOAD

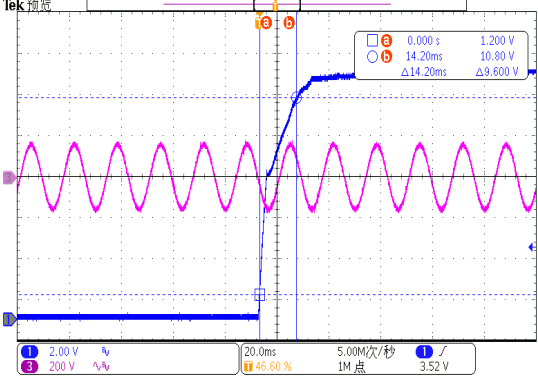
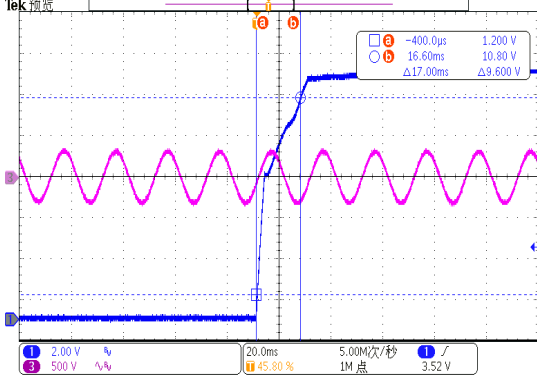
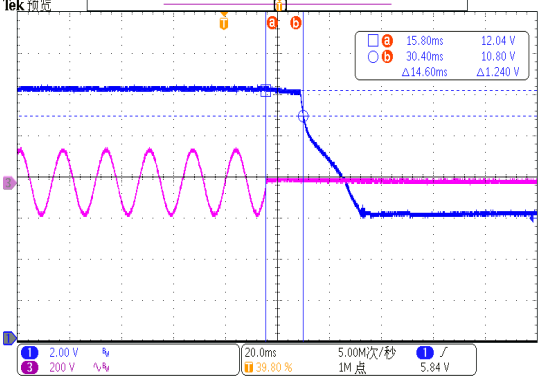
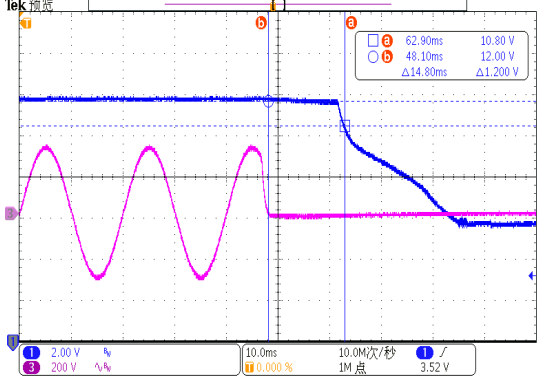
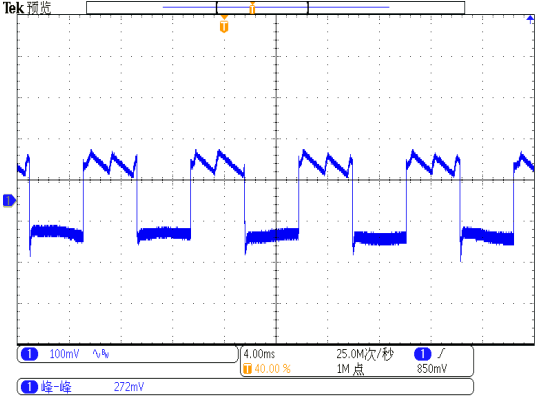
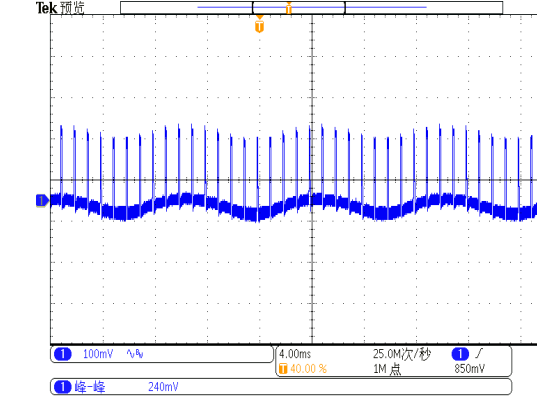
CH1: Output Voltage CH2: AC Input Voltage



INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



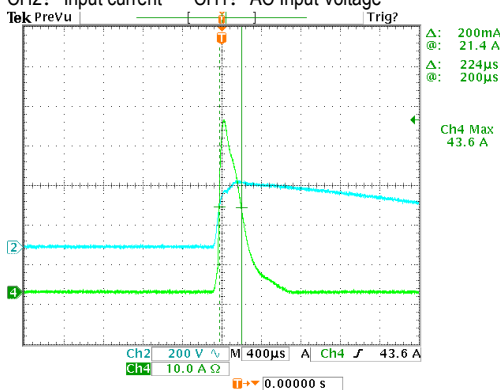
<p>8</p> <p>RISE TIME (Max)</p>	<p>115VAC/ 80ms 230VAC/ 80ms</p>	<p>I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>115VAC/ 14.2 ms 230VAC/ 17.0 ms</p>
<p>INPUT=115VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage</p> 		<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage</p> 	
<p>9</p> <p>HOLD UP TIME(Typ)</p>	<p>115VAC/ 10ms 230VAC/ 10ms</p>	<p>I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>115VAC/ 14.6 ms 230VAC/ 14.8 ms</p>
<p>INPUT=115VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> 		<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p> 	
<p>10</p> <p>DYNAMIC LOAD</p>	<p>V1: 1200 mVp-p</p>	<p>I/P: 230VAC O/P: (1) FULL /50% LOAD 50%DUTY / 120HZ (2) FULL /50% LOAD 50%DUTY / 1KHZ Ta: 25°C</p>	<p>(1) 276mVp-p (2) 240mVp-p</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~305VAC	I/P: TESTING O/P: FULL LOAD Ta: 25°C	90V~ 308 V
			I/P: (1)LOW-LINE-3V=97 V HIGH-LINE+10V=315 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN ( POWER ON/OFF NO DAMAGE )	TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 100 VAC ~305 VAC O/P: FULL~NO LOAD Ta: 25°C	TEST: OK
3	AC CURRENT	0.38A/277VAC 0.45A/230VAC 0.9A/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	I=0.326 A/ 277VAC I=0.385 A/ 230VAC I=0.776 A/ 115VAC
4	LEAKAGE CURRENT	< 0.25mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.028 mA N-FG: 0.028 mA
5	NO LOAD CONSUMPTION	<0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.3398W
6	INRUSH CURRENT(Typ)	230VAC/ 50A COLD START (twidth=270us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I = 43.6A/ 230VAC Twidth =224 us/50% Ipeak

INPUT=230VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



7	EFFICIENCY(Typ)	90.5%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	91.57%																																												
<p><b>EFFICIENCY vs LOAD</b></p> <table border="1"> <caption>Efficiency vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V (%)</th> <th>230V (%)</th> <th>115V (%)</th> </tr> </thead> <tbody> <tr><td>10%</td><td>81.5</td><td>81.0</td><td>81.0</td></tr> <tr><td>20%</td><td>88.0</td><td>87.5</td><td>87.5</td></tr> <tr><td>30%</td><td>90.5</td><td>90.0</td><td>89.5</td></tr> <tr><td>40%</td><td>91.5</td><td>91.0</td><td>90.5</td></tr> <tr><td>50%</td><td>92.0</td><td>91.5</td><td>91.0</td></tr> <tr><td>60%</td><td>92.5</td><td>92.0</td><td>91.5</td></tr> <tr><td>70%</td><td>92.5</td><td>92.0</td><td>91.5</td></tr> <tr><td>80%</td><td>92.0</td><td>91.5</td><td>91.0</td></tr> <tr><td>90%</td><td>91.5</td><td>91.0</td><td>90.5</td></tr> <tr><td>100%</td><td>91.5</td><td>91.0</td><td>90.5</td></tr> </tbody> </table>					LOAD (%)	277V (%)	230V (%)	115V (%)	10%	81.5	81.0	81.0	20%	88.0	87.5	87.5	30%	90.5	90.0	89.5	40%	91.5	91.0	90.5	50%	92.0	91.5	91.0	60%	92.5	92.0	91.5	70%	92.5	92.0	91.5	80%	92.0	91.5	91.0	90%	91.5	91.0	90.5	100%	91.5	91.0	90.5
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8	POWER FACTOR	0.92/ 277VAC 0.95/ 230VAC 0.97/ 115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	PF= 0.947 / 277VAC PF= 0.981 / 230VAC PF= 0.999 / 115VAC																																												
<p><b>P.F vs LOAD</b></p> <table border="1"> <caption>P.F vs Load Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>277V</th> <th>230V</th> <th>115V</th> </tr> </thead> <tbody> <tr><td>50%</td><td>0.82</td><td>0.93</td><td>0.99</td></tr> <tr><td>60%</td><td>0.86</td><td>0.95</td><td>0.99</td></tr> <tr><td>70%</td><td>0.89</td><td>0.96</td><td>0.99</td></tr> <tr><td>80%</td><td>0.92</td><td>0.97</td><td>0.99</td></tr> <tr><td>90%</td><td>0.94</td><td>0.98</td><td>0.99</td></tr> <tr><td>100%</td><td>0.95</td><td>0.98</td><td>0.99</td></tr> </tbody> </table>					LOAD (%)	277V	230V	115V	50%	0.82	0.93	0.99	60%	0.86	0.95	0.99	70%	0.89	0.96	0.99	80%	0.92	0.97	0.99	90%	0.94	0.98	0.99	100%	0.95	0.98	0.99																
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9	TOTAL HARMONIC DISTORTION	THD < 10% ( @load ≥ 50%/115VAC, @load ≥ 50%/230VAC, @load ≥ 75%/277VAC )	I/P: 115 VAC/50% LOAD I/P: 230 VAC/50% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C	THD=5.95% @50% load /115VAC THD=5.38% @50% load /230VAC THD=7.81% @75% load /277VAC																																												
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**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER CURRENT PROTECTION	95%~108%	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: TESTING Ta: 25°C	102 %/ 100VAC 102 %/ 230VAC 102 %/ 305VAC Constant Current Limiting or Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	14V~17V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	15.1V/ 100VAC 15.0V/ 230VAC 15.1V/ 305VAC Shut down and latch off o/p voltage. re-power on to recovery
3	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: FULL LOAD	O.T.P. Active Hiccup mode, recovers automatically after fault condition is removed
4	SHORT CIRCUIT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 100VAC I/P: 305VAC O/P: FULL LOAD Ta: 25°C	NO DAMAGE Hiccup mode, recovers automatically after fault condition is removed

**COMPONENT STRESS TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Power Transistor	Q2 Rated 6A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 448 V (2) 444 V (3) 416 V
2	Diode Peak Voltage	Q100 Rated 70A/40V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 29.0 V (2) 6.64 V (3) 29.4 V
3	PFC Transistor	Q1 Rated 11A/600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 456 V (2) 452 V (3) 448 V
4	P.F.C DIODE	D5 Rated 9A/ 600V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1)444V (2)440V (3)436V
5	Control IC	U1 Rated 27V (MAX.)	I/P: High-Line +3V =308 V O/P: ((1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P (5) Low Line No Load Vo(min) Ta: 25°C	(1) 12.2 V (2) 12.5 V (3) 12.3 V (4) 12.2 V (5) 12.2 V

6	Input Capacitor Voltage	C5 Rated: 18 $\mu$ F/ 450 V	I/P: High-Line +3V =308 V 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	(1)430V (2)486V (3)436V (4)428V
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### 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: 1.702 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC>100M $\Omega$	I/P-O/P: 500 VDC Ta: 25°C	I/P-O/P: >9999 M $\Omega$

### 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/50% LOAD Ta: 25°C	PASS
2	CONDUCTION	EN55015	I/P: 230 VAC/50HZ O/P: FULL 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 LIGHT 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 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA A
6	SURGE	EN61000-4-5 LIGHT INDUSTRY L-N: 1KV	I/P: 230VAC/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: SLD-80-12 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=28.2°C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=49.9°C																																																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=28.2 °C</th> <th>HIGH AMBIENT Ta=49.9 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH1</td><td>60.3°C</td><td>73.2°C</td></tr> <tr><td>2</td><td>ZNR1</td><td>44.0°C</td><td>61.8°C</td></tr> <tr><td>3</td><td>C1</td><td>40.6°C</td><td>59.6°C</td></tr> <tr><td>4</td><td>BD1</td><td>62.3°C</td><td>79.5°C</td></tr> <tr><td>5</td><td>C8</td><td>58.4°C</td><td>75.0°C</td></tr> <tr><td>6</td><td>L2</td><td>61.6°C</td><td>77.8°C</td></tr> <tr><td>7</td><td>Q1</td><td>66.0°C</td><td>81.6°C</td></tr> <tr><td>8</td><td>R7</td><td>64.3°C</td><td>80.8°C</td></tr> <tr><td>9</td><td>C5</td><td>61.4°C</td><td>77.5°C</td></tr> <tr><td>10</td><td>C6</td><td>61.1°C</td><td>77.5°C</td></tr> <tr><td>11</td><td>U1</td><td>58.1°C</td><td>75.5°C</td></tr> <tr><td>12</td><td>D5</td><td>64.4°C</td><td>83.2°C</td></tr> <tr><td>13</td><td>Q2</td><td>65.0°C</td><td>81.9°C</td></tr> <tr><td>14</td><td>Q3</td><td>66.7°C</td><td>83.0°C</td></tr> <tr><td>15</td><td>U2</td><td>73.0°C</td><td>89.9°C</td></tr> <tr><td>16</td><td>L3</td><td>70.1°C</td><td>86.5°C</td></tr> <tr><td>17</td><td>C51</td><td>57.0°C</td><td>74.9°C</td></tr> <tr><td>18</td><td>C15</td><td>68.9°C</td><td>85.7°C</td></tr> <tr><td>19</td><td>T1</td><td>77.6°C</td><td>95.1°C</td></tr> <tr><td>20</td><td>Q100</td><td>81.9°C</td><td>97.7°C</td></tr> <tr><td>21</td><td>Q101</td><td>82.8°C</td><td>99.6°C</td></tr> <tr><td>22</td><td>U101</td><td>75.9°C</td><td>94.1°C</td></tr> <tr><td>23</td><td>U100</td><td>67.6°C</td><td>85.6°C</td></tr> <tr><td>24</td><td>C105</td><td>68.8°C</td><td>85.3°C</td></tr> <tr><td>25</td><td>C106</td><td>67.9°C</td><td>84.9°C</td></tr> <tr><td>26</td><td>RTH2</td><td>73.6°C</td><td>90.7°C</td></tr> <tr><td>27</td><td>TC</td><td>48.3°C</td><td>66.3°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=28.2 °C	HIGH AMBIENT Ta=49.9 °C	1	RTH1	60.3°C	73.2°C	2	ZNR1	44.0°C	61.8°C	3	C1	40.6°C	59.6°C	4	BD1	62.3°C	79.5°C	5	C8	58.4°C	75.0°C	6	L2	61.6°C	77.8°C	7	Q1	66.0°C	81.6°C	8	R7	64.3°C	80.8°C	9	C5	61.4°C	77.5°C	10	C6	61.1°C	77.5°C	11	U1	58.1°C	75.5°C	12	D5	64.4°C	83.2°C	13	Q2	65.0°C	81.9°C	14	Q3	66.7°C	83.0°C	15	U2	73.0°C	89.9°C	16	L3	70.1°C	86.5°C	17	C51	57.0°C	74.9°C	18	C15	68.9°C	85.7°C	19	T1	77.6°C	95.1°C	20	Q100	81.9°C	97.7°C	21	Q101	82.8°C	99.6°C	22	U101	75.9°C	94.1°C	23	U100	67.6°C	85.6°C	24	C105	68.8°C	85.3°C	25	C106	67.9°C	84.9°C	26	RTH2	73.6°C	90.7°C	27	TC	48.3°C	66.3°C
NO	Position	ROOM AMBIENT Ta=28.2 °C	HIGH AMBIENT Ta=49.9 °C																																																																																																																	
1	RTH1	60.3°C	73.2°C																																																																																																																	
2	ZNR1	44.0°C	61.8°C																																																																																																																	
3	C1	40.6°C	59.6°C																																																																																																																	
4	BD1	62.3°C	79.5°C																																																																																																																	
5	C8	58.4°C	75.0°C																																																																																																																	
6	L2	61.6°C	77.8°C																																																																																																																	
7	Q1	66.0°C	81.6°C																																																																																																																	
8	R7	64.3°C	80.8°C																																																																																																																	
9	C5	61.4°C	77.5°C																																																																																																																	
10	C6	61.1°C	77.5°C																																																																																																																	
11	U1	58.1°C	75.5°C																																																																																																																	
12	D5	64.4°C	83.2°C																																																																																																																	
13	Q2	65.0°C	81.9°C																																																																																																																	
14	Q3	66.7°C	83.0°C																																																																																																																	
15	U2	73.0°C	89.9°C																																																																																																																	
16	L3	70.1°C	86.5°C																																																																																																																	
17	C51	57.0°C	74.9°C																																																																																																																	
18	C15	68.9°C	85.7°C																																																																																																																	
19	T1	77.6°C	95.1°C																																																																																																																	
20	Q100	81.9°C	97.7°C																																																																																																																	
21	Q101	82.8°C	99.6°C																																																																																																																	
22	U101	75.9°C	94.1°C																																																																																																																	
23	U100	67.6°C	85.6°C																																																																																																																	
24	C105	68.8°C	85.3°C																																																																																																																	
25	C106	67.9°C	84.9°C																																																																																																																	
26	RTH2	73.6°C	90.7°C																																																																																																																	
27	TC	48.3°C	66.3°C																																																																																																																	
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/110VAC O/P: 100% LOAD Ta= -25°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: 305VAC O/P: FULL LOAD Ta=50°C HUMIDITY= 95 %R.H	TEST: OK																																																																																																																
4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0-60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.003 %/°C (0-60°C)																																																																																																																





5	STORAGE TEMPERATURE TEST	-40°C~+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
6	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: 16CYCLE 5. Input/Output condition: 15cycle:230VAC/ FULL LOAD AC on 3 sec/AC off 1 sec TEST 1cycle:230VAC/ FULL LOAD Burn In Test TEST: OK
7	VIBRATION TEST	10~ 500Hz, 2G 12min./1cycle, period for 72min. 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: 3G (5) Test Time: 72min in each axis (X.Y.Z) (6) Ta: 25°C TEST: OK
8	CAPACITOR LIFE CYCLE	SLD-80-12: SUPPOSE C105 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) 24289 HRS (2) 41505 HRS (3) 74632 HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2666.8K hrs min. Telcordia SR-332 (Bellcore) ; 260.9K hrs min. MIL-HDBK-217F (25°C)	
10	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	WUWQ/ZHOUB	WENF	LIUWY