



# Test Report: XLG-75-12

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75W Constant Power MODE 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

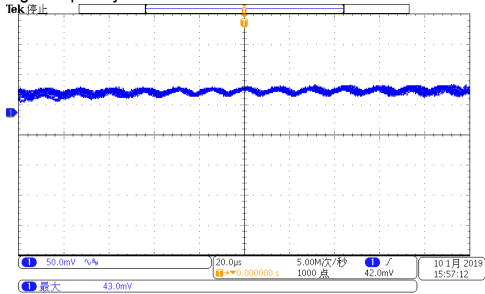
Environment Test

■ DESIGN VERIFY TEST

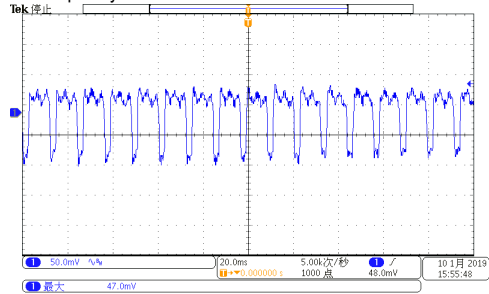
**OUTPUT FUNCTION TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONSTANT CURRENT REGION	8.4V~12V	I/P: 230VAC O/P: LED MODE Ta: 25°C	7.2 V~ 12 V
2	CURRENT ADJ. RANGE	2.5A~5A	I/P: 230VAC O/P: SETTING Ta: 25°C	2.04A~5.74A
3	VOLTAGE TOLERANCE	-3%~+3%	I/P: 90VAC / 305VAC O/P: FULL/ NO LOAD Ta: 25°C	-0.58%~ 0.33%
4	LINE REGULATION	-0.5%~+0.5%	I/P: 90VAC ~ 305VAC O/P: FULL LOAD Ta: 25°C	-0.08%~0.17%
5	LOAD REGULATION	-2%~+2%	I/P: 230VAC O/P: FULL ~NO LOAD Ta: 25°C	-0.42%~ 0.42%
6	OVER/UNDERSHOOT TEST	<±5 %	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	± 1.016%
7	CONSTANT POWER	O/P: 60W	I/P: 230 VAC O/P: Vo×Io	TEST: OK
8	RIPPLE & NOISE (Max)	150mVp-p	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	47mVp-p

high frequency :



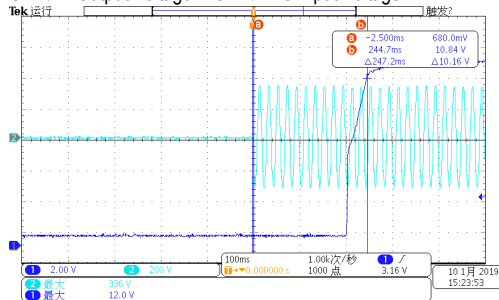
low frequency :



9	SET UP TIME(Max)	115VAC/1200ms 230VAC/ 500ms	I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	115VAC/ 288 ms 230VAC/ 247 ms
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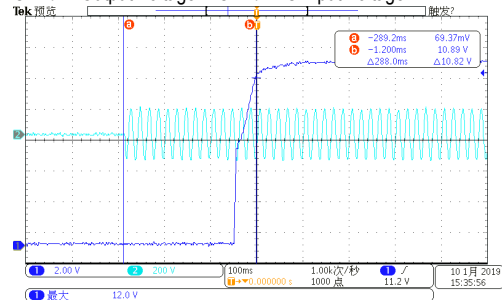
INPUT=115VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



INPUT=230VAC/50HZ @ FULL LOAD

CH1: Output Voltage CH2: AC Input Voltage



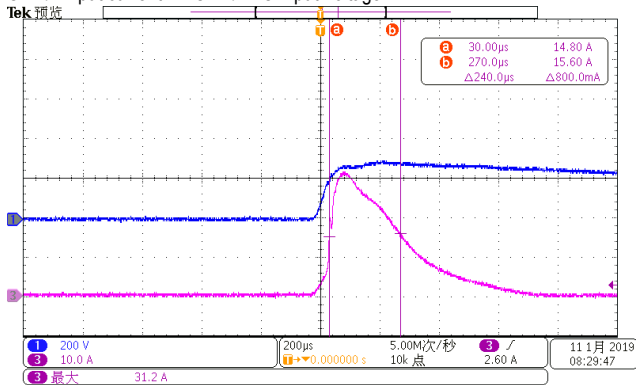
<p>10</p> <p>RISE TIME (Max)</p>	<p>115VAC/ 100ms 230VAC/ 100ms</p>	<p>I/P: 115 VAC I/P: 230 VAC O/P: FULL LOAD Ta: 25°C</p>	<p>115VAC/ 45 ms 230VAC/ 43 ms</p>
<p>INPUT=115VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage</p>		<p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage</p>	
<p>11</p> <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>120VAC/ 38 ms 230VAC/ 38 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>12</p> <p>DYNAMIC LOAD</p>	<p>V1: 1200 mVp-p</p>	<p>I/P: 230VAC O/P:</p> <p>(1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ</p> <p>Ta: 25°C</p>	<p>(1) 224mVp-p (2) 352mVp-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	95 V~ 315 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 1.0A/115VAC	I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C	I=0.24 A/ 277VAC I=0.28 A/ 230VAC I=0.55 A/ 115VAC
4	LEAKAGE CURRENT	< 0.75mA / 277VAC	I/P: 277 VAC O/P: NO LOAD Ta: 25°C	L-FG: 0.419 mA N-FG: 0.419 mA
5	NO LOAD CONSUMPTION	<0.5W	I/P: 230VAC O/P: NO LOAD Ta: 25°C	0.2282W
6	INRUSH CURRENT(Typ)	230VAC/ 50A COLD START (twidth=300us measured at 50% Ipeak) COLD START at 230V	I/P: 230 VAC O/P: FULL LOAD Ta: 25°C	I = 31.2A/ 277VAC Twidth =240 us/50% Ipeak

INPUT=230VAC/50HZ @ FULL LOAD

CH2: Input current CH1: AC Input Voltage



7	EFFICIENCY(Typ)	89%	I/P: 230VAC O/P: FULL LOAD Ta: 25°C	90.4%																																												
<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>80.0</td><td>79.5</td><td>79.0</td></tr> <tr><td>20%</td><td>85.5</td><td>85.0</td><td>84.5</td></tr> <tr><td>30%</td><td>87.5</td><td>87.0</td><td>86.5</td></tr> <tr><td>40%</td><td>88.5</td><td>88.0</td><td>87.5</td></tr> <tr><td>50%</td><td>89.0</td><td>88.5</td><td>88.0</td></tr> <tr><td>60%</td><td>89.5</td><td>89.0</td><td>88.5</td></tr> <tr><td>70%</td><td>90.0</td><td>89.5</td><td>89.0</td></tr> <tr><td>80%</td><td>90.5</td><td>90.0</td><td>89.5</td></tr> <tr><td>90%</td><td>90.5</td><td>90.0</td><td>89.5</td></tr> <tr><td>100%</td><td>90.5</td><td>90.0</td><td>89.5</td></tr> </tbody> </table>					LOAD (%)	277V (%)	230V (%)	115V (%)	10%	80.0	79.5	79.0	20%	85.5	85.0	84.5	30%	87.5	87.0	86.5	40%	88.5	88.0	87.5	50%	89.0	88.5	88.0	60%	89.5	89.0	88.5	70%	90.0	89.5	89.0	80%	90.5	90.0	89.5	90%	90.5	90.0	89.5	100%	90.5	90.0	89.5
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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= 0.930 / 277VAC PF= 0.979 / 230VAC PF= 0.998 / 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>0.80</td><td>0.92</td><td>1.00</td></tr> <tr><td>60%</td><td>0.84</td><td>0.94</td><td>1.00</td></tr> <tr><td>70%</td><td>0.87</td><td>0.95</td><td>1.00</td></tr> <tr><td>80%</td><td>0.90</td><td>0.96</td><td>1.00</td></tr> <tr><td>90%</td><td>0.92</td><td>0.97</td><td>1.00</td></tr> <tr><td>100%</td><td>0.93</td><td>0.98</td><td>1.00</td></tr> </tbody> </table>					LOAD (%)	277V	230V	115V	50%	0.80	0.92	1.00	60%	0.84	0.94	1.00	70%	0.87	0.95	1.00	80%	0.90	0.96	1.00	90%	0.92	0.97	1.00	100%	0.93	0.98	1.00																
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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=3.68% @50% load /115VAC THD=7.38% @50% load /230VAC THD=7.99% @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	101.4 %/ 100VAC 101.4 %/ 230VAC 101.4 %/ 305VAC Hiccup mode or Constant current Limiting, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	13V~19V	I/P: 100VAC I/P: 230VAC I/P: 305VAC O/P: NO LOAD Ta: 25°C	16.1V/ 100VAC 16.1V/ 230VAC 16.3V/ 305VAC Shut down output 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 Shut down output voltage, re-power on to recovery
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 or Constant current Limiting, recovers automatically after fault condition is removed
5	INPUT OVER VOLTAGE (for XLG-75I only)	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage Can survive input voltage stress of 440Vac for 48 hours	I/P: TESTING O/P: FULL LOAD Ta:25°C	PASS

**COMPONENT STRESS TEST**

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Power Transistor	Q2 Rated 800V/6A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 638 V (2) 574 V (3) 646 V
2	Diode Peak Voltage	Q101 Rated 110A/80V	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 57.6 V (2) 50.2 V (3) 57.6 V
3	PFC Transistor	Q1 Rated 650V/10.5A	I/P: High-Line +3V =308V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C	(1) 482 V (2) 478 V (3) 454 V
4	P.F.C DIODE	D5 Rated 3 A/ 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)442V (2)450V (3)422V

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) 16.0 V (2) 15.8 V (3) 15.8 V (4) 12.6 V (5) 15.4 V
6	Input Capacitor Voltage	C5 Rated: 33 $\mu$ / 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)449V (2)446V (3)446V (4)446V

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 4.2KVAC/min I/P-FG: 2.1KVAC/min O/P-FG: 1.5KVAC/min	I/P-O/P: 4.6 KVAC/min I/P-FG: 2.52 KVAC/min O/P-FG: 1.8 KVAC/min Ta: 25°C	I/P-O/P: 3.343 mA I/P-FG: 3.243 mA O/P-FG: 2.676 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P: 500VDC>100M $\Omega$ I/P-FG: 500VDC>100M $\Omega$ O/P-FG: 500VDC>100M $\Omega$	I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta: 25°C	I/P-O/P: >9999 M $\Omega$ I/P-FG: >9999 M $\Omega$ O/P-FG: 8883 M $\Omega$
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 m $\Omega$	40A / 2min Ta:25°C	16 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: 2KV	I/P: 230VAC/50HZ O/P: FULL LOAD Ta: 25°C	CRITERIA A

6	SURGE	EN61000-4-5 LIGHT INDUSTRY L-N: 4KV L,N-PE: 6KV	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: XLG-75-12A 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=26.6 °C 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta=62.4 °C	<table border="1" data-bbox="507 1064 1380 1771"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=26.6 °C</th> <th>HIGH AMBIENT Ta=62.4 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>48.6°C</td><td>83.7°C</td></tr> <tr><td>2</td><td>RTH1</td><td>50.9°C</td><td>84.9°C</td></tr> <tr><td>3</td><td>C1</td><td>50.6°C</td><td>85.8°C</td></tr> <tr><td>4</td><td>LF2</td><td>49.6°C</td><td>85.0°C</td></tr> <tr><td>5</td><td>BD1</td><td>53.5°C</td><td>89.0°C</td></tr> <tr><td>6</td><td>C7</td><td>50.3°C</td><td>85.7°C</td></tr> <tr><td>7</td><td>Q1</td><td>55.4°C</td><td>91.3°C</td></tr> <tr><td>8</td><td>Q2</td><td>55.8°C</td><td>92.5°C</td></tr> <tr><td>9</td><td>U1</td><td>51.7°C</td><td>87.3°C</td></tr> <tr><td>10</td><td>U2</td><td>53.1°C</td><td>88.6°C</td></tr> <tr><td>11</td><td>C5</td><td>53.0°C</td><td>88.4°C</td></tr> <tr><td>12</td><td>D6</td><td>54.8°C</td><td>90.8°C</td></tr> <tr><td>13</td><td>C50</td><td>53.5°C</td><td>89.1°C</td></tr> <tr><td>14</td><td>L2</td><td>54.1°C</td><td>90.0°C</td></tr> <tr><td>15</td><td>T1</td><td>58.5°C</td><td>94.9°C</td></tr> <tr><td>16</td><td>Q101</td><td>57.5°C</td><td>94.0°C</td></tr> <tr><td>17</td><td>C102</td><td>54.2°C</td><td>90.2°C</td></tr> <tr><td>18</td><td>C104</td><td>55.6°C</td><td>91.7°C</td></tr> <tr><td>19</td><td>RTH2</td><td>52.5°C</td><td>87.6°C</td></tr> <tr><td>20</td><td>TC</td><td>48.8°C</td><td>83.3°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=26.6 °C	HIGH AMBIENT Ta=62.4 °C	1	ZNR1	48.6°C	83.7°C	2	RTH1	50.9°C	84.9°C	3	C1	50.6°C	85.8°C	4	LF2	49.6°C	85.0°C	5	BD1	53.5°C	89.0°C	6	C7	50.3°C	85.7°C	7	Q1	55.4°C	91.3°C	8	Q2	55.8°C	92.5°C	9	U1	51.7°C	87.3°C	10	U2	53.1°C	88.6°C	11	C5	53.0°C	88.4°C	12	D6	54.8°C	90.8°C	13	C50	53.5°C	89.1°C	14	L2	54.1°C	90.0°C	15	T1	58.5°C	94.9°C	16	Q101	57.5°C	94.0°C	17	C102	54.2°C	90.2°C	18	C104	55.6°C	91.7°C	19	RTH2	52.5°C	87.6°C	20	TC	48.8°C	83.3°C	
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19	RTH2	52.5°C	87.6°C																																																																																					
20	TC	48.8°C	83.3°C																																																																																					
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 305VAC/100VAC O/P: 100% LOAD Ta= -45°C/ -35°C	TEST: OK																																																																																				
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 60°C NO DAMAGE	I/P: 305VAC O/P: FULL LOAD Ta=60°C HUMIDITY= 95 %R.H	TEST: OK																																																																																				





4	TEMPERATURE COEFFICIENT	±0.03 %/°C (0~60°C)	I/P: 230 VAC O/P: FULL LOAD	±0.019 %/°C (0~60°C)
5	STORAGE TEMPERATURE TEST	-40°C~ +80°C	1. Thermal shock Temperature: -50°C~ +125°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 200CYCLE 5. Input/Output condition: STATIC TEST: OK	
6	THERMAL SHOCK TEST	-40~+60°C	1. Thermal shock Temperature: -45°C~ +65°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, 5G 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: 6G (5) Test Time: 72min in each axis (X.Y.Z) (6) Ta: 25°C TEST: OK	
8	CAPACITOR LIFE CYCLE	XLG-75-12: SUPPOSE C104 IS THE MOST CRITICAL COMPONENT (1) I/P: 230VAC O/P: FULL LOAD Tc= 70 °C LIFE TIME (2) I/P: 230VAC O/P: 75% LOAD Tc= 70 °C LIFE TIME (3) I/P: 230VAC O/P: 50% LOAD Tc= 70 °C LIFE TIME	(1) 37983 HRS (2) 69115 HRS (3) 104819 HRS	
9	MTBF	Conducted by Parts Stress Analysis Prediction 3404.7K hrs min. Telcordia SR-332 (Bellcore) ; 276.3K 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 : 50,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/ZHOUB	WENF	LIUWY