



# Test Report: SLD-150-56

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150W 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

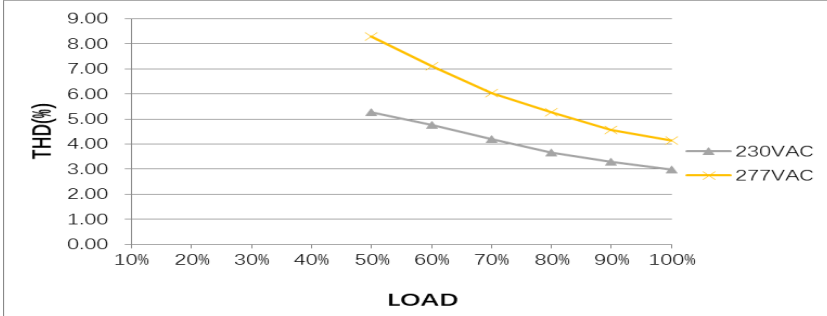
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5%	I/P:230VAC O/P: LEDmax CP: 2.68A & 4.17A&3.15A Ta:25°C	CP2.68A: 2.681A/230VAC@CV MAX-1V 2.684A/230VAC@CV MIN 0.15% CP 4.17A: 4.178A/230VAC@CV MAX-1V 4.178A/230VAC@CV MIN 0.19% CP 3.15A: 3.150A/230VAC@CV MAX-1V 3.153A/230VAC@CV MIN 0.10%
2	FULL POWER CURRENT RANGE	2680~4170mA	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A Ta:25°C	56.01V/2.68A/230VAC 36.01V/4.17A/230VAC
3	OPEN CIRCUIT VOLTAGE (max)	60V	I/P: 230VAC O/P:NO LOAD CP: OPEN Ta:25°C	56.67V
4	CONSTANT CURRENT REGION	CP 2.68A: CH1: 24V~ 56V  CP 4.17A: CH1: 24V~ 36V	I/P: 230VAC O/P:LEDmax CP: 2.68A & 4.17A  Ta:25°C	CP 2.68A: 19.19V~54.46V/230VAC  CP 4.17A: 19.19V~46.44 V/230VAC
5	CURRENT ADJ. RANGE	CH1: 1400mA~4170mA	I/P: 230VAC O/P:CVmin& CVmax-1V CP: 2.68A & 4.17A  Ta:25°C	CP 2.68A: 1.13A~2.86A/230VAC@CV MAX-1V 1.14A~4.44A/230VAC@CV MIN  CP 4.17A : 1.13A~4.44A/230VAC@CV MAX-1V 1.14A~4.44A/230VAC@CV MIN
6	CURRENT RIPPLE	5.0% max.	I/P: 230VAC O/P: LEDmax CP: 2.68A & 4.17A&4A  Ta:25°C	CP 2.68A: 1.89% CP 4.17A: 0.98% CP 4A: 1.92%

7	SET UP TIME	230VAC/ 500 ms (Max)	I/P: 230VAC O/P:LEDmax CP 2.68A Ta:25°C	230VAC/338ms
<p>INPUT=230VAC/50HZ @ LEDMAX@ CP 2.68A CH1 : Output Voltage CH2 : AC Input Voltage</p> <p>Tek Stop</p> <p>△: 515 V @: -10.0 V △: 338ms @: -330ms</p> <p>Ch1 11.2 V Ch2 250 V 100ms A Ch1 44.8 V</p> <p>60.00 %</p>				

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	120VAC~305VAC 170VDC ~ 431VDC	(1) I/P:TESTING O/P:LEDmax (2) I/P:DC TESTING(L:+ N:-) O/P:LEDmax (3) I/P:DC TESTING(L:- N:+) O/P:LEDmax (PLEASE CHECK DERATING CURVE) Ta:25°C	(1) 120VAC~308Vac (2) 170Vdc~431Vdc (3) 170Vdc~431Vdc
			I/P: LOW-LINE-3V=117V HIGH-LINE+10V=315V O/P: LEDmax / LEDmin CP 2.68A (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN ( POWER ON/OFF NO DAMAGE )	(1).TEST:OK (2).TEST :OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 120 VAC ~305VAC O/P: LEDmax ~ LEDmin CP 2.68A Ta:25°C	TEST: OK
3	INPUT CURRENT (TYP)	230VAC/ 1.00A 277VAC/ 0.80A	I/P: 230VAC/277VAC O/P:LEDmax CP 2.68A Ta:25°C	I =0.701A/ 230VAC I =0.588A/ 277VAC

4	POWER FACTOR(TYP)	0.92/277 VAC LEDMAX 0.95/230 VAC LEDMAX	I/P: 230VAC/277VAC O/P:LEDmax CP 2.68A Ta:25°C	PF=0.976/277V/100%LOAD PF=0.992/230V/100%LOAD																												
<p>P.F vs LOAD</p> <table border="1"> <caption>P.F vs LOAD Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC PF</th> <th>230VAC PF</th> <th>277VAC PF</th> </tr> </thead> <tbody> <tr><td>50</td><td>0.92</td><td>0.97</td><td>0.93</td></tr> <tr><td>60</td><td>0.94</td><td>0.98</td><td>0.95</td></tr> <tr><td>70</td><td>0.95</td><td>0.98</td><td>0.96</td></tr> <tr><td>80</td><td>0.96</td><td>0.98</td><td>0.97</td></tr> <tr><td>90</td><td>0.97</td><td>0.98</td><td>0.97</td></tr> <tr><td>100</td><td>0.98</td><td>0.99</td><td>0.98</td></tr> </tbody> </table>					LOAD (%)	115VAC PF	230VAC PF	277VAC PF	50	0.92	0.97	0.93	60	0.94	0.98	0.95	70	0.95	0.98	0.96	80	0.96	0.98	0.97	90	0.97	0.98	0.97	100	0.98	0.99	0.98
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5	EFFICIENCY (TYP)	93%	I/P: 230VAC O/P:LEDmax CP 2.68A Ta:25°C	93.75%																												
<p>EFFICIENCY vs LOAD</p> <table border="1"> <caption>EFFICIENCY vs LOAD Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>115VAC Efficiency (%)</th> <th>230VAC Efficiency (%)</th> <th>277VAC Efficiency (%)</th> </tr> </thead> <tbody> <tr><td>50</td><td>92</td><td>93</td><td>93</td></tr> <tr><td>60</td><td>93</td><td>94</td><td>94</td></tr> <tr><td>70</td><td>94</td><td>94</td><td>94</td></tr> <tr><td>80</td><td>94</td><td>94</td><td>94</td></tr> <tr><td>90</td><td>94</td><td>94</td><td>94</td></tr> <tr><td>100</td><td>94</td><td>94</td><td>94</td></tr> </tbody> </table>					LOAD (%)	115VAC Efficiency (%)	230VAC Efficiency (%)	277VAC Efficiency (%)	50	92	93	93	60	93	94	94	70	94	94	94	80	94	94	94	90	94	94	94	100	94	94	94
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6	INRUSH CURRENT (TYP)	230V/ 65A COLD START  (twitdh=500 us measured at 50% Ipeak) COLD START	I/P: 230VAC O/P:LEDmax CP 2.68A Ta:25°C	I =44.4A /230VAC T50= 400us																												
<p>INPUT=230VAC/ 60HZ @ LEDMAX CH2 : AC Input Voltage CH1 : Input current</p> <p>Ch1 最大 44.4 A</p> <p>15 11月2022 10:08:29</p>																																

7	TOTAL HARMONIC DISTORTION	THD < 10% (@ load $\geq$ 60%/230VAC ,@load $\geq$ 75%/277VAC)	I/P : 230VAC/277VAC O/P : 60% LOAD 75% LOAD CP 2.68A Ta : 25°C	THD : 4.76%230V 60% THD : 5.65%277V 75%																				
	<p>THD vs LOAD</p>  <table border="1"> <caption>THD vs LOAD Data</caption> <thead> <tr> <th>LOAD (%)</th> <th>THD (%) - 230VAC</th> <th>THD (%) - 277VAC</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>5.2</td> <td>8.2</td> </tr> <tr> <td>60</td> <td>4.8</td> <td>7.2</td> </tr> <tr> <td>70</td> <td>4.4</td> <td>6.2</td> </tr> <tr> <td>80</td> <td>4.0</td> <td>5.2</td> </tr> <tr> <td>90</td> <td>3.6</td> <td>4.6</td> </tr> <tr> <td>100</td> <td>3.2</td> <td>4.2</td> </tr> </tbody> </table>				LOAD (%)	THD (%) - 230VAC	THD (%) - 277VAC	50	5.2	8.2	60	4.8	7.2	70	4.4	6.2	80	4.0	5.2	90	3.6	4.6	100	3.2
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8	LEAKAGE CURRENT	IEC/EN60335-1: < 0.35mA peak/ 294VAC, 60Hz	I/P: 294VAC O/P:Min LOAD Ta:25°C	L-FG: 0.018 mA N-FG: 0.017mA																				

### ROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER VOLTAGE PROTECTION	V1: 60V~70V	I/P: 305VAC I/P: 230VAC I/P: 120VAC CP 2.68A  O/P:MIN LOAD Ta:25°C	64.7V / 305VAC6 64.7V/ 230VAC5 64.7V/ 120VAC7 PROTECTION TYPE : Shut down output voltage, re-power on to recovery
2	OVER TEMPERATURE PROTECTION	NO DAMAGE	I/P: 305VAC I/P: 230VAC I/P: 120VAC CP 2.68A O/P:LEDmax Ta:25°C	O.T.P.Active OK PROTECTION TYPE : Shut down output voltage, re-power on to recovery
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 305VAC I/P: 230VAC I/P: 120VAC CP 2.68A&4.17A O/P: LEDMAX Ta:25°C	CP: 2.68A NO DAMAGE PROTECTION TYPE : Hiccup mode, recovers automatically after fault condition is removed CP: 4.17A 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) Peak Voltage	Q3 Rated: 15A /650V	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A&amp;4.17A</b> VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>I/P:Low-Line -3V = 117V VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p> <p>Ta:25°C</p>	<p>308V <b>CP: 2.68A</b> Q3 VDS: (1) 443V (2) 443V (3) 443V (4) 439V (5) 439V 117V <b>CP: 2.68A</b> Q3 VDS: (1) 451V (2) 447V (3) 435V (4) 431V (5) 435V</p> <p>308V <b>CP: 4.17A</b> VDS: (1) 447V (2) 443V (3) 443V (4) 439V (5) 439V</p> <p>117V <b>CP: 4.17A</b> Q3 VDS: (1) 451V (2) 451V (3) 439V (4) 435V (5) 439V</p>
2	P.F.C Transistor ( D to S) or (C to E) Peak Voltage	Q1 Rated: 15A/ 650V	<p>I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p>	<p>308V <b>CP: 2.68A</b> Q1 VDS: (1) 584V (2) 584V (3) 539V (4) 503V (5) 584V</p>

			<p>I/P:Low-Line -3V =117V  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short</p> <p>Ta:25°C</p>	<p>117V  <b>CP: 2.68A</b>  Q1  VDS:  (1) 572V  (2) 572V  (3) 499V  (4) 491V  (5) 479V</p> <p>308V  <b>CP: 4.17A</b>  Q1  VDS:  (1) 602V  (2) 582V  (3) 573V  (4) 533V  (5) 577V</p> <p>117V  <b>CP: 4.17A</b>  Q1  VDS:  (1) 573V  (2) 569V  (3) 525V  (4) 521V  (5) 569V</p>
3	P.F.C DIODE	D5 Rated: 9A/600V	<p>I/P:High-Line +3V =308V  AC ON/OFF  <b>CP: 2.68A</b>  VDS:  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short</p> <p>I/P:Low-Line -3V = 117V  O/P: (1)LEDmax  (2) LEDmax continue  (3) LEDmin  (4) LEDmin continue  (5) Output Short</p> <p>Ta:25°C</p>	<p><b>D5</b>  (1)451V  (2)447V  (3)463V  (4)443V  (5)443V</p> <p>(1)459V  (2)455V  (3) 439V  (4)439V  (5)455V</p>

4	Diode Peak Voltage	Q100 Rated: 93A/ 150V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A&amp;4.17A</b> VDS: O/P: (1)LEDmax (2) LEDmax continue (3) Output Short  Ta:25°C	<b>CP: 2.68A</b> Q100 VDS: (1) 120.8V (2) 120.8V (3) 11.9V  <b>CP: 4.17A</b> Q100 VDS: (1) 81.4V (2) 80.6V (3) 11.9V
5	Input Capacitor Voltage	C5 Rated: 33μ F/ 450V Surge voltage: 500 V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue Ta:25°C	(1) 451V (2) 443V (3) 455V (4) 443V
6	Control IC Voltage Test	PFC/PWM IC U1 Rated  -0.3V~19V  O/P IC U101 Rated -0.3V~26V	I/P:High-Line +3V =308V AC ON/OFF <b>CP: 2.68A</b> VDS: O/P: (1)LEDmax (2) LEDmin (3) Output Short (4) NO LOAD VRmin.LOW LINE Ta:25°C	<b>U1</b> (1) 17.0V (2) 17.0V (3) 17.0V (4) 11.7V  <b>U101</b> (1) 11.1V (2) 11.1V (3) 0.54V (4) 11.1V



## SAFETY & EMC TEST

### SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	IEC/EN61347-1: I/P-O/P: 3.86KVAC/min	I/P-O/P: 4.246 KVAC/min Ta:25°C	I/P-O/P: 1.32mA  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: 230VAC/50HZ O/P: LEDmax Ta:25°C	PASS
2	CONDUCTION	EN/EN55015(CISPR15)/55014	I/P:230VAC (50HZ) O/P: LEDmax /50% LOAD Ta:25°C	PASS Test by certified Lab
3	RADIATION	EN/EN55015(CISPR15)/55014	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 LIGHT INDUSTRY AIR : 8KV / Contact : 4KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
5	E.F.T	EN61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P: 230VAC (50HZ) O/P:LEDmax Ta:25°C	CRITERIA A
6	SURGE	IEC61000-4-5 light industry L-N :1KV	I/P: 230VAC (50HZ) O/P:LEDmax 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-150-56 1. ROOM AMBIENT BURN-IN : HRS I/P : 230VAC O/P : FULL LOAD Ta=27.96 °C 2. HIGH AMBIENT BURN-IN : HRS I/P : 230VAC O/P : FULL LOAD Ta=43.2 °C																																																																																																		
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=27.9°C</th> <th>HIGH AMBIENT Ta=43.2 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH1</td><td>88.6°C</td><td>96.7°C</td></tr> <tr><td>2</td><td>BD1</td><td>89.9°C</td><td>101.1°C</td></tr> <tr><td>3</td><td>C7</td><td>79.1°C</td><td>90.9°C</td></tr> <tr><td>4</td><td>L2</td><td>79.1°C</td><td>87.0°C</td></tr> <tr><td>5</td><td>D5</td><td>81.6°C</td><td>92.2°C</td></tr> <tr><td>6</td><td>Q1</td><td>81.9°C</td><td>92.0°C</td></tr> <tr><td>7</td><td>R7</td><td>79.5°C</td><td>90.1°C</td></tr> <tr><td>8</td><td>C6</td><td>69.8°C</td><td>82.2°C</td></tr> <tr><td>9</td><td>Q2</td><td>88.9°C</td><td>102.3°C</td></tr> <tr><td>10</td><td>Q3</td><td>87.9°C</td><td>101.0°C</td></tr> <tr><td>11</td><td>U1</td><td>80.2°C</td><td>86.8°C</td></tr> <tr><td>12</td><td>R20</td><td>83.4°C</td><td>92.8°C</td></tr> <tr><td>13</td><td>C13</td><td>92.6°C</td><td>93.0°C</td></tr> <tr><td>14</td><td>L3</td><td>83.1°C</td><td>100.6°C</td></tr> <tr><td>15</td><td>T1</td><td>81.3°C</td><td>102.3°C</td></tr> <tr><td>16</td><td>Q100</td><td>61.1°C</td><td>82.0°C</td></tr> <tr><td>17</td><td>Q101</td><td>61.2°C</td><td>82.2°C</td></tr> <tr><td>18</td><td>U101</td><td>66.6°C</td><td>87.2°C</td></tr> <tr><td>19</td><td>C105</td><td>54.7°C</td><td>72.4°C</td></tr> <tr><td>20</td><td>C106</td><td>54.3°C</td><td>71.5°C</td></tr> <tr><td>21</td><td>RTH2</td><td>69.9°C</td><td>82.0°C</td></tr> <tr><td>22</td><td>TC</td><td>65.6°C</td><td>88.5°C</td></tr> <tr><td>23</td><td>TC</td><td>65.6°C</td><td>88.5°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=27.9°C	HIGH AMBIENT Ta=43.2 °C	1	RTH1	88.6°C	96.7°C	2	BD1	89.9°C	101.1°C	3	C7	79.1°C	90.9°C	4	L2	79.1°C	87.0°C	5	D5	81.6°C	92.2°C	6	Q1	81.9°C	92.0°C	7	R7	79.5°C	90.1°C	8	C6	69.8°C	82.2°C	9	Q2	88.9°C	102.3°C	10	Q3	87.9°C	101.0°C	11	U1	80.2°C	86.8°C	12	R20	83.4°C	92.8°C	13	C13	92.6°C	93.0°C	14	L3	83.1°C	100.6°C	15	T1	81.3°C	102.3°C	16	Q100	61.1°C	82.0°C	17	Q101	61.2°C	82.2°C	18	U101	66.6°C	87.2°C	19	C105	54.7°C	72.4°C	20	C106	54.3°C	71.5°C	21	RTH2	69.9°C	82.0°C	22	TC	65.6°C	88.5°C	23	TC	65.6°C	88.5°C
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 305VAC/120VAC O/P : 100 % LOAD Ta= -30 °C	TEST : OK																																																																																																
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 40°C NO DAMAGE	I/P : 315 VAC O/P : FULL LOAD Ta=40 °C HUMIDITY= 95 %R.H	TEST : OK																																																																																																
4	TEMPERATURE COEFFICIENT	± 0.06 %(0°C~60°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.005 %(0~60°C)																																																																																																

5	STORAGE TEMPERATURE TEST	-40~85°C	<ol style="list-style-type: none"> <li>1. Thermal shock Temperature : -45°C~ +90°C</li> <li>2. Temperature change rate : 25°C / MIN</li> <li>3. Dwell time low and high temperature : 30 MIN/EACH</li> <li>4. Total test cycle : 10CYCLE</li> <li>5. Input/Output condition : AC OFF STATIC TEST : OK</li> </ol>
6	THERMAL SHOCK TEST	-25~40°C	<ol style="list-style-type: none"> <li>1. Thermal shock Temperature : -30°C~ +45°C</li> <li>2. Temperature change rate : 25°C / MIN</li> <li>3. Dwell time low and high temperature : 30 MIN/EACH</li> <li>4. Total test cycle : 16 CYCLE</li> <li>5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test</li> </ol>
7	VIBRATION TEST	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	<ol style="list-style-type: none"> <li>1 Carton &amp; 1 Set</li> <li>(1) Waveform : Sine Wave</li> <li>(2) Frequency : 10~500Hz</li> <li>(3) Sweep Time : 12min/sweep cycle</li> <li>(4) Acceleration : 3G</li> <li>(5) Test Time : 180min in each axis (X.Y.Z)</li> <li>(6) Ta : 25°C</li> </ol>
8	CAPACITOR LIFE CYCLE	SLD-150-56 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) 328746HRS (2) 391867HRS (3) 209140HRS
9	MTBF	Conducted by Parts Stress Analysis Prediction 2883.5K hrs min. Telcordia SR-332 (Bellcore) ; 298.8K hrs min. MIL-HDBK-217F (25°C)	
10	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=40°C Demonstration Mean Time Between Failure : 50,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/HUANGMK	WENF	LINKX

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