



# Test Report: SLD-150-56

---

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

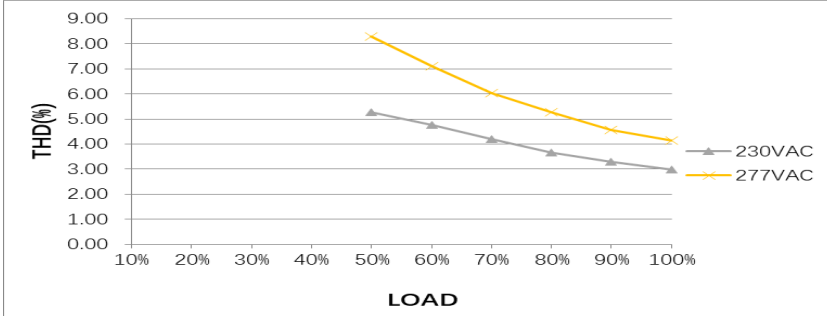
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CURRENT TOLERANCE	±5%	I/P:230VAC O/P: LEDmax CP: 2.68A & 4.17A&3.15A Ta:25°C	CP2.68A: 2.681A/230VAC@CV MAX-1V 2.684A/230VAC@CV MIN 0.15% CP 4.17A: 4.178A/230VAC@CV MAX-1V 4.178A/230VAC@CV MIN 0.19% CP 3.15A: 3.150A/230VAC@CV MAX-1V 3.153A/230VAC@CV MIN 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>0.94</td></tr> <tr><td>70</td><td>0.95</td><td>0.98</td><td>0.95</td></tr> <tr><td>80</td><td>0.96</td><td>0.98</td><td>0.96</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	0.94	70	0.95	0.98	0.95	80	0.96	0.98	0.96	90	0.97	0.98	0.97	100	0.98	0.99	0.98
LOAD (%)	115VAC PF	230VAC PF	277VAC PF																													
50	0.92	0.97	0.93																													
60	0.94	0.98	0.94																													
70	0.95	0.98	0.95																													
80	0.96	0.98	0.96																													
90	0.97	0.98	0.97																													
100	0.98	0.99	0.98																													
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
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																													
6	INRUSH CURRENT (TYP)	230V/ 65A COLD START  (twidth=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 10.0 A/div CH2 100 V/div</p> <p>Scale: 1.00 A, 20.0 V, 400ns</p> <p>Peak: 44.4 A</p> <p>Time: 112.000ms</p> <p>Date: 15/11/2022 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
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	4.2																						
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 CP: 2.68A&amp;4.17A 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 CP: 2.68A Q3 VDS: (1) 443V (2) 443V (3) 443V (4) 439V (5) 439V 117V CP: 2.68A Q3 VDS: (1) 451V (2) 447V (3) 435V (4) 431V (5) 435V</p> <p>308V CP: 4.17A VDS: (1) 447V (2) 443V (3) 443V (4) 439V (5) 439V</p> <p>117V CP: 4.17A 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 CP: 2.68A VDS: O/P: (1)LEDmax (2) LEDmax continue (3) LEDmin (4) LEDmin continue (5) Output Short</p>	<p>308V CP: 2.68A 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
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																																																																																																	
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

2020.10.1 TAG-QA-009