



Test Report: LSP-160-5

160W Slim Type with PFC Switching Power Supply

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Control Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

DESIGN VERIFY TEST

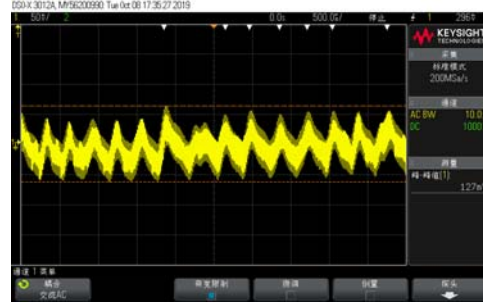
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	4.7V ~ 5.3V	I/P : 230 VAC O/P : MIN LOAD Ta : 25°C	4.40V-5.74V/230VAC
2	OUTPUT VOLTAGE(Max) TOLERANCE	-2% ~ 2%	I/P: 90VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25°C	-1.2%-0.6%
3	LINE REGULATION (Max)	-0.5% ~ 0.5%	I/P: 90VAC ~ 264VAC O/P:FULL LOAD Ta:25°C	0%~ 0%
4	LOAD REGULATION(Max)	-1% ~ 1%	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	-0.8%-0.8%
5	OVER/UNDERSHOOT TEST	≤±10%	I/P: 230VAC O/P:FULL LOAD Ta:25°C	5.6 %
6	RIPPLE & NOISE(Max)	200 mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	127mVp-p

high frequency :



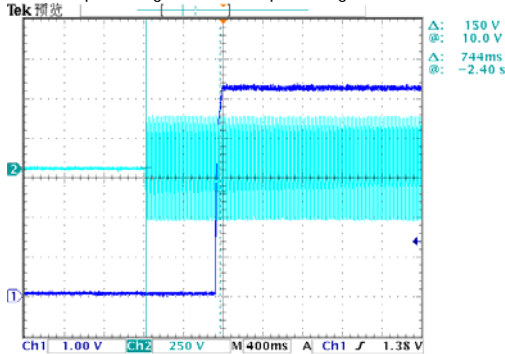
low frequency :



7	SET UP TIME(Max)	230VAC/2000ms 115VAC/3000ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/ 744ms 115VAC/ 888ms
---	------------------	--------------------------------	--	--------------------------------

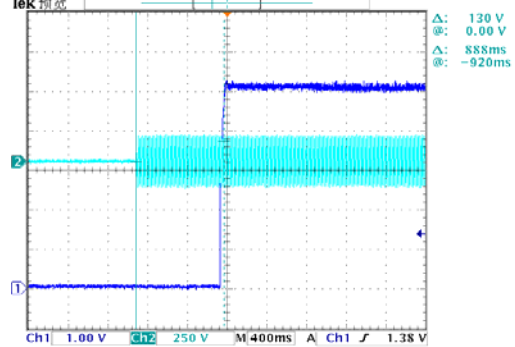
INPUT=230VAC/50HZ @ FULL LOAD

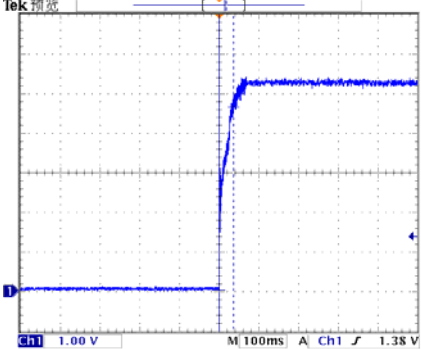
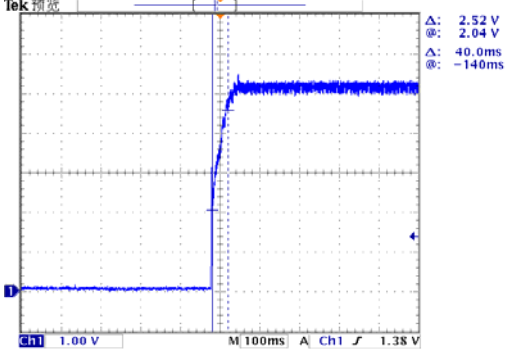
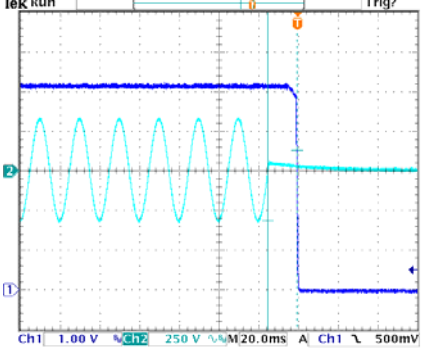
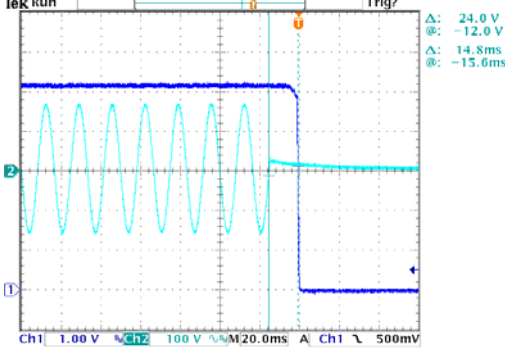
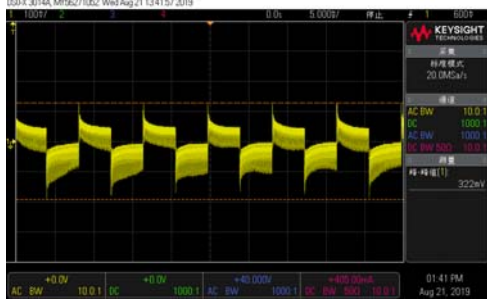

CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

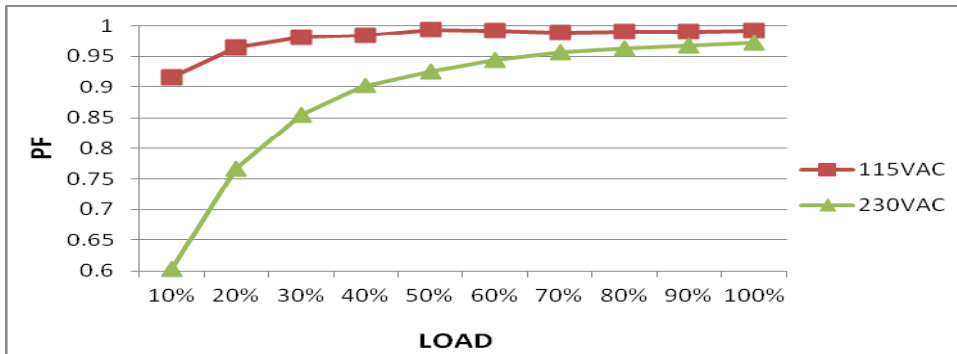


<p>8</p> <p>RISE TIME (Max)</p>	<p>230VAC/80ms 115VAC/80ms</p>	<p>I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C</p>	<p>230VAC/ 36 ms 115VAC/ 40ms</p>
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage</p> 		<p>INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage</p> 	
<p>9</p> <p>HOLD UP TIME (Typ.)</p>	<p>230VAC/10ms 115VAC/10ms</p>	<p>I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C</p>	<p>230VAC/14.8ms 115VAC/14.8ms</p>
<p>INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage</p> 		<p>INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage</p> 	
<p>10</p> <p>DYNAMIC LOAD</p>	<p>V1: 1000mVp-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) 322mVp-p (2)285 mVp-p</p>
<p>FULL /50% LOAD 50%DUTY / 120HZ</p> 		<p>FULL /50% LOAD 50%DUTY / 1KHZ</p> 	

INPUT FUNCTION TEST

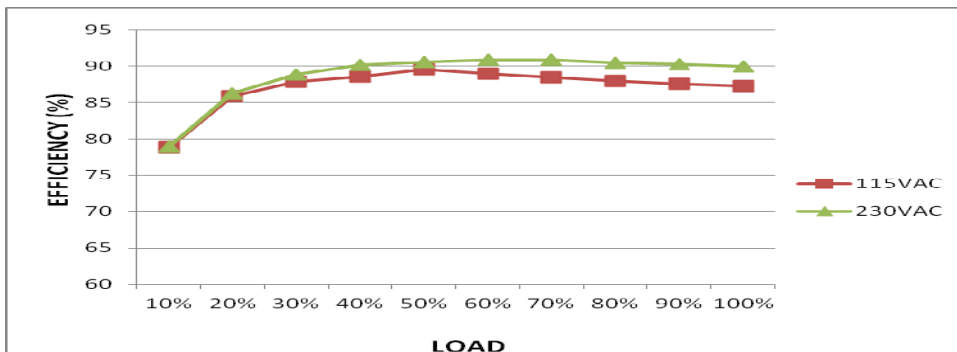
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	100VAC-264VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	100V-300V
			I/P: LOW-LINE-3V=97VAC HIGH-LINE+15%=300VAC O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST:OK
2	INPUT FREQUENCY RANGE	47HZ -63 HZ NO DAMAGE	I/P:100VAC ~264 VAC O/P:FULL-MIN LOAD Ta:25°C	TEST: OK
3	INPUT CURRENT (Typ.)	230V/ 1.1A 115V/ 2.2A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I=0.82A/ 230VAC I=1.66A/ 115VAC
4	LEAKAGE CURRENT	<0.75 mA / 240 VAC	I/P : 240 VAC O/P : Min LOAD Ta : 25°C	L-FG : 0.572mA N-FG : 0.566mA
5	POWER FACTOR (Typ.)	0.94/ 230VAC 0.98/115VAC	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF=0.972/230VAC PF=0.992/115VAC

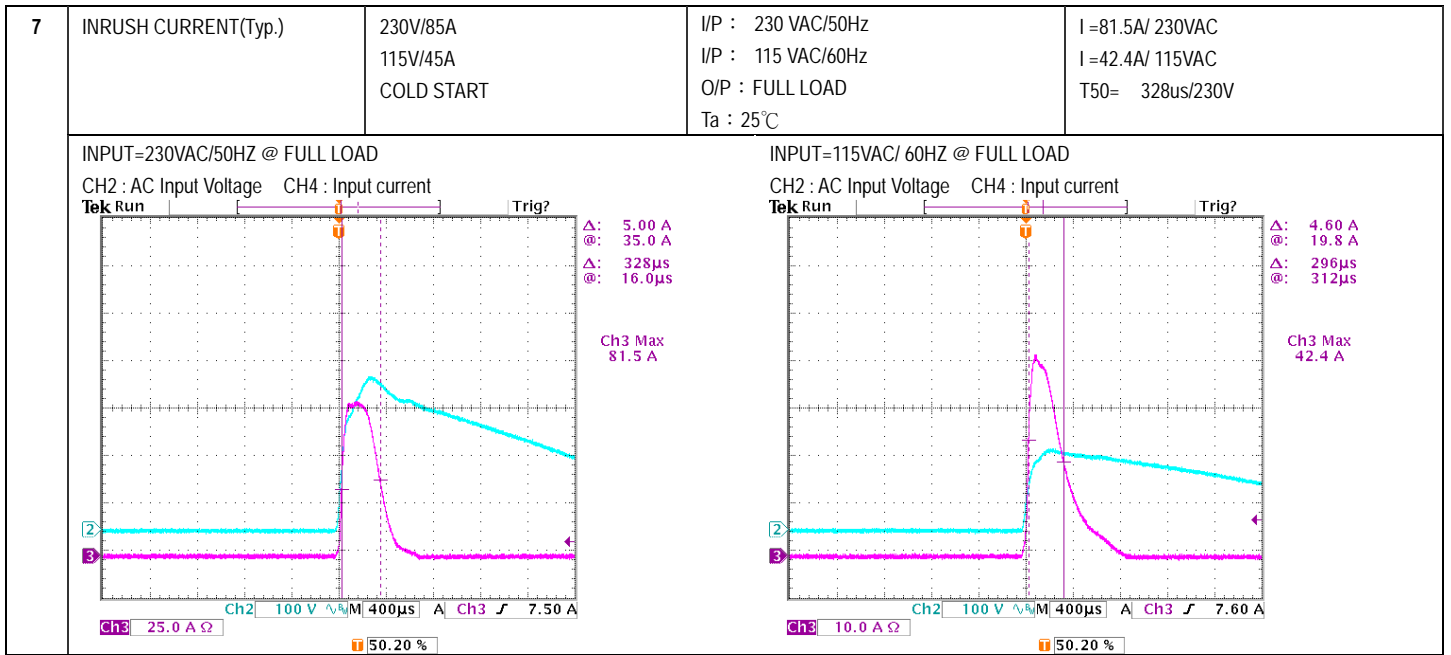
P.F vs LOAD



6	EFFICIENCY(Typ.)	89.5%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	89.92%
---	------------------	-------	---	--------

EFFICIENCY vs LOAD





PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	110%~ 140%	I/P: 264VAC I/P: 230VAC I/P: 100VAC O/P: TESTING Ta:25°C	126.5%/ 264VAC 126.8%/ 230VAC 126.3%/100VAC PROTECTION TYPE : Constant current limiting, continuous increase of load will be hiccup protection, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	5.75V~6.75V	I/P: 264VAC I/P: 230VAC I/P: 100VAC O/P: MIN LOAD Ta:25°C	6.335V/ 264VAC 6.254V/ 230VAC 6.089V/ 100VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recovery
3	OVER TEMPERATURE PROTECTION	Protection type : NO DAMAGE	I/P: 264VAC I/P: 100VAC O/P: FULL LOAD	O.T.P: Active Protection type : Shut down o/p voltage, re-power on to recovers after temperature goes down
4	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P: 264VAC I/P: 100VAC O/P: FULL LOAD Ta:25°C	NO DAMAGE PROTECTION TYPE : hiccup protection, recovers automatically after fault condition is removed

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	DC OK CONTACT RATINGS	15VDC/10mA RESISTIVE LOAD	I/P: 230VAC O/P: FULL LOAD Ta:25°C	TEST : OK



2	CURRENT SHARING (3.3V、4.2V、5V only)	PSU1-PSU2 < 10%	I/P : 230 VAC O/P : FULL/50% LOAD Ta : 25°C	O/P : 100% PSU1 : 28.06 A PSU2 : 29.94 A O/P : 50% PSU1 : 15.06 A PSU2 : 16.94 A
3	REDUNDANT CONTROL	over shoot /undershoot<10% RIPPLE & NOISE<1000mVp-p	I/P : 100VAC/230VAC/264VAC O/P : NO LOAD /FULL LOAD Ta : 25°C	O/P: FULL LOAD PSU1: -4.7%/ 148mVp-p PSU2: -7%/ 69mVp-p O/P: NO LOAD PSU1: 0%/ 76.4mVp-p PSU2: -6.6%/ 56.8mVp-p

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q2 Rated 11A/650V	AC ON/OFF I/P:High-Line +3V =267V 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 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 Ta:25°C	VDS: (1)419V (2)439V (3)419V (4)423V (5)427V (6)419V VDS: (1)415V (2)439V (3)415V (4)411V (5)415V (6)419V



<p>2</p>	<p>P.F.C Transistor (D to S) or (C to E) Peak Voltage</p>	<p>Q3 Rated 600V/12A</p>	<p>I/P:High-Line +3V =267V AC ON/OFF 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</p> <p>I/P:Low-Line -3V = 97V AC ON/OFF 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</p> <p>Ta:25°C</p>	<p>VDS: (1)440V (2)436V (3)436V (4)436V (5)440V (6)432V</p> <p>VDS: (1)472V (2)444V (3)468V (4)472V (5)472V (6)468V</p>
<p>4</p>	<p>P.F.C DIODE</p>	<p>D6 Rated 8A/600V</p>	<p>I/P:High-Line +3V =267 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>I/P:Low-Line -3V = 97V O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz</p> <p>Ta:25°C</p>	<p>(1) 412V (2) 400V (3) 412V (4) 412V</p> <p>(1) 420V (2) 416V (3) 420V (4) 420V</p>

5	SR MOS	Q101 Rated 100A/ 30 V Q104 Rated 100A/ 30 V	AC ON/OFF I/P:High-Line +3V =267 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)NO LOAD Ta:25°C	Q101: VDS: (1)13.8V (2)4.3V (3)13.6V (4)13.8V (5)13.2V (6)13.4V (7)10.7V	Q104: VDS: (1)12.6V (2)5.5V (3)12.6V (4)12.4V (5)12.4V (6)12.4V (7) 11.3V	
6	Input Capacitor Voltage	C5 Rated: : 56 μ / 420 V	I/P:High-Line +3V =267V 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)388V (2)380V (3)396V (4)388V		
7	Control IC Voltage Test	PWM IC U2 Rated 20V PFC IC U1 Rated 20V O/P IC U100 Rated 26 V	AC ON/OFF I/P:High-Line +3V =267 V 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	U1 (1)15.2V (2)15.2V (3)15.2V (4)13.8 V (5) 15.2V	U2 16.2V 16.4V 16.4V 15.8V 15.8V	U100 14.6V 12.6V 14.8V 14.4V 14.4V
8	VCC Diode Peak Voltage	D20 Rated: 1A/200V D201 Rated: 1A/200V	I/P: High-Line +3V = 267VAC O/P: (1) FULLLoad input on/off (2) Output Short (3) NO Load (4) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz	D20 (1) 85.6V (2) 78.4V (3) 80V (4) 88.8V	D201 63.9V 29.3V 55V 63.1V	

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC/min I/P-FG : 2KVAC/min O/P-FG:1.25KVAC/min	I/P-O/P: 4.2KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:1.5KVAC/min Ta:25°C	I/P-O/P:3.226mA I/P-FG:3.164mA O/P-FG:2.814m A NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100M Ω I/P-FG: 500VDC>100M Ω O/P-FG:500VDC>100M Ω	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 Ω I/P-FG: >9999M Ω O/P-FG: >9999M Ω NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100 m Ω	40A / 2min Ta:25°C	9m Ω
4	Withstand surge input	I/P: 300VAC*5s	I/P: 310VAC*5s O/P: FULL LOAD/NO LOAD Ta:25°C	NO DAMAGE

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	EN61000-3-2 CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS
2	CONDUCTION	EN55032 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
3	RADIATION	EN55032 CLASS B	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
4	E.S.D	EN61000-4-2 HEAVY INDUSTRY Contact: 4KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	EN61000-4-4 HEAVY INDUSTRY INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	IEC61000-4-5 HEAVY INDUSTRY L-N : 2KV L,N-PE : 4KV	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 : LSP-160-5R 1. ROOM AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=26 °C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta=51.9 °C																																																																																																										
				<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=26 °C</th> <th>HIGH AMBIENT Ta=51.9 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>41.2°C</td><td>67.4°C</td></tr> <tr><td>2</td><td>RTH2</td><td>61.0°C</td><td>81.7°C</td></tr> <tr><td>3</td><td>L1</td><td>49.2°C</td><td>75.3°C</td></tr> <tr><td>4</td><td>C5</td><td>47.0°C</td><td>73.4°C</td></tr> <tr><td>5</td><td>C6</td><td>46.1°C</td><td>72.8°C</td></tr> <tr><td>6</td><td>C22</td><td>47.3°C</td><td>74.2°C</td></tr> <tr><td>7</td><td>C20</td><td>47.3°C</td><td>74.0°C</td></tr> <tr><td>8</td><td>R20</td><td>49.9°C</td><td>76.8°C</td></tr> <tr><td>9</td><td>BD1</td><td>62.5°C</td><td>87.4°C</td></tr> <tr><td>10</td><td>Q2</td><td>48.3°C</td><td>75.2°C</td></tr> <tr><td>11</td><td>Q3</td><td>48.9°C</td><td>75.7°C</td></tr> <tr><td>12</td><td>D6</td><td>46.7°C</td><td>73.2°C</td></tr> <tr><td>13</td><td>U1</td><td>47.4°C</td><td>73.9°C</td></tr> <tr><td>14</td><td>U2</td><td>45.9°C</td><td>72.7°C</td></tr> <tr><td>15</td><td>T1</td><td>61.0°C</td><td>88.9°C</td></tr> <tr><td>16</td><td>Q101</td><td>52.4°C</td><td>79.6°C</td></tr> <tr><td>17</td><td>Q104</td><td>53.7°C</td><td>81.1°C</td></tr> <tr><td>18</td><td>U100</td><td>53.3°C</td><td>80.3°C</td></tr> <tr><td>19</td><td>J103</td><td>55.7°C</td><td>84.5°C</td></tr> <tr><td>20</td><td>C106</td><td>57.5°C</td><td>85.9°C</td></tr> <tr><td>21</td><td>C107</td><td>58.5°C</td><td>86.8°C</td></tr> <tr><td>22</td><td>RTH3</td><td>46.6°C</td><td>73.4°C</td></tr> <tr><td>23</td><td>C13</td><td>46.7°C</td><td>72.8°C</td></tr> <tr><td>24</td><td>Q201</td><td>52.1°C</td><td>80.1°C</td></tr> <tr><td>25</td><td>TC</td><td>42.1°C</td><td>68.6°C</td></tr> </tbody> </table>	NO	Position	ROOM AMBIENT Ta=26 °C	HIGH AMBIENT Ta=51.9 °C	1	ZNR1	41.2°C	67.4°C	2	RTH2	61.0°C	81.7°C	3	L1	49.2°C	75.3°C	4	C5	47.0°C	73.4°C	5	C6	46.1°C	72.8°C	6	C22	47.3°C	74.2°C	7	C20	47.3°C	74.0°C	8	R20	49.9°C	76.8°C	9	BD1	62.5°C	87.4°C	10	Q2	48.3°C	75.2°C	11	Q3	48.9°C	75.7°C	12	D6	46.7°C	73.2°C	13	U1	47.4°C	73.9°C	14	U2	45.9°C	72.7°C	15	T1	61.0°C	88.9°C	16	Q101	52.4°C	79.6°C	17	Q104	53.7°C	81.1°C	18	U100	53.3°C	80.3°C	19	J103	55.7°C	84.5°C	20	C106	57.5°C	85.9°C	21	C107	58.5°C	86.8°C	22	RTH3	46.6°C	73.4°C	23	C13	46.7°C	72.8°C	24	Q201	52.1°C	80.1°C	25	TC	42.1°C	68.6°C
NO	Position	ROOM AMBIENT Ta=26 °C	HIGH AMBIENT Ta=51.9 °C																																																																																																									
1	ZNR1	41.2°C	67.4°C																																																																																																									
2	RTH2	61.0°C	81.7°C																																																																																																									
3	L1	49.2°C	75.3°C																																																																																																									
4	C5	47.0°C	73.4°C																																																																																																									
5	C6	46.1°C	72.8°C																																																																																																									
6	C22	47.3°C	74.2°C																																																																																																									
7	C20	47.3°C	74.0°C																																																																																																									
8	R20	49.9°C	76.8°C																																																																																																									
9	BD1	62.5°C	87.4°C																																																																																																									
10	Q2	48.3°C	75.2°C																																																																																																									
11	Q3	48.9°C	75.7°C																																																																																																									
12	D6	46.7°C	73.2°C																																																																																																									
13	U1	47.4°C	73.9°C																																																																																																									
14	U2	45.9°C	72.7°C																																																																																																									
15	T1	61.0°C	88.9°C																																																																																																									
16	Q101	52.4°C	79.6°C																																																																																																									
17	Q104	53.7°C	81.1°C																																																																																																									
18	U100	53.3°C	80.3°C																																																																																																									
19	J103	55.7°C	84.5°C																																																																																																									
20	C106	57.5°C	85.9°C																																																																																																									
21	C107	58.5°C	86.8°C																																																																																																									
22	RTH3	46.6°C	73.4°C																																																																																																									
23	C13	46.7°C	72.8°C																																																																																																									
24	Q201	52.1°C	80.1°C																																																																																																									
25	TC	42.1°C	68.6°C																																																																																																									
2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 125.6%LOAD Ta : 25°C	TEST : OK																																																																																																								
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 264VAC/110VAC O/P : 100 %LOAD Ta= -35°C	TEST : OK																																																																																																								
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50°C /95 %R.H NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 50°C HUMIDITY= 95 %R.H	TEST : OK																																																																																																								
5	TEMPERATURE COEFFICIENT	±0.03 %/°C (0-50°C)	I/P : 230 VAC O/P : FULL LOAD	± 0.0156%/°C (0-50°C)																																																																																																								



6	STORAGE TEMPERATURE TEST	-40-85°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 : 10 CYCLE 5. Input/Output condition : STATIC
7	THERMAL SHOCK TEST	-30-50°C	1. Thermal shock Temperature : -35°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, 5G 10min./1cycle, 60min. 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 : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	LSP-160-5R : SUPPOSE C107 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta=50 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta=50 °C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta=50 °C LIFE TIME	(1) 4742747HRS (2) 202316HRS (3) 726156HRS (4) 2167854HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 699.54 K hrs min. Telcordia SR-332 (Bellcore) 282.71K 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 : 30,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	WUWQ/ZHOUBIAO	WENF	LIUWY

2018.4.30 GP-A50-F010