



Test Report: HLG-120H-30

120W Constant Voltage + Constant Current LED Drive

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Other Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

■ RELIABILITY TEST

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|--------------------------------|---|--|---|
| 1 | RIPPLE & NOISE | V1: 200 mVp-p (Max) | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | V1: 59.2 mVp-p (Max) |
| 2 | OUTPUT VOLTAGE ADJUST RANGE | CH1: 27V~33 V | I/P: 230 VAC I/P:115VAC O/P:MIN LOAD Ta:25°C | 26.26 V~33.58 V /230VAC 26.26 V~33.58 V/115VAC |
| 3 | CURRENT ADJ RANGE | 2A~4A | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | 1.841 A~ 4.622 A |
| 4 | CONSTANT CURRENT REGION | 15V~30V | I/P: 230 VAC O/P:CV MODE Ta:25°C | O/P=15V: 4.092 A O/P=29V: 4.090 A |
| 5 | OUTPUT VOLTAGE TOLERANCE | V1: -1% ~ 1% (Max) | I/P: 100 VAC /305VAC O/P:FULL/ 0% LOAD Ta:25°C | V1:-0.08 %~ 0.08 % |
| 6 | LINE REGULATION | V1: - 0.5% ~ 0.5% (Max) | I/P:100 VAC ~305 VAC O/P:FULL LOAD Ta:25°C | V1: 0 %~ 0 % |
| 7 | LOAD REGULATION | V1: - 0.5% ~ 0.5% (Max) | I/P: 230 VAC O/P:FULL ~MIN LOAD Ta:25°C | V1: -0.06 %~ 0.06 % |
| 8 | SET UP TIME | 230VAC/ 500 ms (Max) 115VAC/ 1200 ms (Max) | I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C | 230VAC/ 394 ms 115 VAC/ 824 ms |
| 9 | RISE TIME | 230VAC/ 50 ms (Max) 115VAC/ 50 ms (Max) | I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C | 230VAC/ 11 ms 115 VAC/ 11 ms |
| 10 | HOLD UP TIME | 230VAC/ 12 ms (Typ) 115VAC/ 12 ms (Typ) | I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C | 230VAC/ 25 ms 115 VAC/ 24 ms |
| 11 | OVER/UNDERSHOOT TEST | < ±5% | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | TEST:< 5 % |
| 12 | DYNAMIC LOAD | V1: 3000 mVp-p | I/P: 230 VAC O/P:(1)FULL /Min LOAD 90%DUTY/1KHZ (2)FULL /Min LOAD 90%DUTY/120HZ Ta:25°C | 448 mVp-p 1060 mVp-p |

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|----|------------------------------|---|------------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 13 | DIMMER TEST (B Type only) | SPEC: | | | | | | | | | | | |
| | | *Reference resistance value for output current adjustment (Typical) | | | | | | | | | | | |
| | | Resistance value | 10K | 20K | 30K | 40K | 50K | 60K | 70K | 80K | 90K | 100K | |
| | | Output current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | |
| | | *1 ~ 10V dimming function for output current adjustment (Typical) | | | | | | | | | | | |
| | | Dimming value | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | |
| | | Output current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | |
| | | *10V PWM signal for output current adjustment (Typical) | | | | | | | | | | | |
| | | Duty value | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | |
| | | Output current | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | |
| | | TEST RESULT: I/P : 230 VAC ;Ta : 25°C | | | | | | | | | | | |
| | | 1 | Resistance value | 10K | 20K | 30K | 40K | 50K | 60K | 70K | 80K | 90K | 100K |
| | | | Output current | 0.578A | 0.979A | 1.369A | 1.740A | 2.137A | 2.528A | 2.924A | 3.296A | 3.747A | 4.115A |
| % | 14.45% | | 24.48% | 34.23% | 43.50% | 53.43% | 63.20% | 73.10% | 82.40% | 93.68% | 102.88% | | |
| 2 | Dimming value | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | | |
| | Output current | 0.574A | 0.959A | 1.346A | 1.716A | 2.093A | 2.483A | 2.866A | 3.252A | 3.632A | 4.013A | | |
| | % | 14.35% | 23.98% | 33.65% | 42.90% | 52.33% | 62.08% | 71.65% | 81.30% | 90.80% | 100.33% | | |
| 3 | Duty value | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | | |
| | Output current | 0.595A | 0.990A | 1.373A | 1.749A | 2.129A | 2.514A | 2.899A | 3.285A | 3.671A | 4.053A | | |
| | % | 14.88% | 24.75% | 34.33% | 43.73% | 53.23% | 62.85% | 72.48% | 82.13% | 91.78% | 101.33% | | |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|---------------------------|--|---|--|
| 1 | INPUT VOLTAGE RANGE | 90VAC~305 VAC | I/P:TESTING O/P:FULL LOAD Ta:25°C | 78 V~305V |
| | | | I/P: (1)LOW-LINE-3V=87 V (2)HIGH-LINE=305 V O/P:FULL/MIN LOAD ON: 30 Sec . OFF: 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE) | TEST: OK |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE | I/P: 100 VAC ~305VAC O/P:FULL~MIN LOAD Ta:25°C | OK |
| 3 | POWER FACTOR | 0.95/ 230 VAC FULL LOAD (TYP) 0.98/ 115 VAC FULL LOAD (TYP) 0.93/ 277 VAC FULL LOAD (TYP) | I/P: 230 VAC I/P: 115 VAC I/P: 277 VAC O/P:FULL LOAD Ta:25°C | PF=0.9627/230V/100%LOAD PF=0.9946 /115V/100%LOAD PF=0.933 /277V/100%LOAD |
| 4 | EFFICIENCY | 93% (TYP) | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | 93.98 % |
| 5 | INPUT CURRENT | 277V/ 0.55 A 230 V/ 0.6 A 115 V/ 1.4 A | I/P: 277 VAC I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C | I =0.493 A/ 277VAC I = 0.56 A/ 230VAC I = 1.13 A/ 115VAC |
| 6 | INRUSH CURRENT | 230 V/ 60A (Typ) COLD START | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | I = 55 A/ 230VAC |
| 7 | TOTAL HARMONIC DISTORTION | THD< 20% when output loading \geq 50% at 115VAC/230VAC input and output loading \geq 75% at 277VAC input | I/P : 115 VAC I/P : 230 VAC O/P : 50% LOAD I/P : 277 VAC O/P : 75%LOAD Ta : 25°C | THD : 10.15 /115VAC THD : 17.32 /230VAC THD : 15.65 /277VAC |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|-------------------------|--------------|---|---|
| 1 | OVER LOAD PROTECTION | 95 %~108 % | I/P: 305VAC I/P: 230 VAC I/P: 100 VAC O/P:TESTING Ta:25°C | 106 %/305VAC 106 %/ 230VAC 106 %/100VAC Constant current limiting, recovers automatically after fault condition is removed |
| 2 | OVER VOLTAGE PROTECTION | V1: 34V~ 38V | I/P: 305VAC I/P: 230 VAC I/P: 90 VAC O/P:MIN LOAD Ta:25°C | 36.10 V/ 305VAC 36.48 V/ 230VAC 36.51 V/ 100VAC Shut down o/p voltage with auto recovery or re-power on to recovery |

| | | | | |
|---|-----------------------------|--|---|---|
| 3 | OVER TEMPERATURE PROTECTION | NO DAMAGE | I/P: 230 VAC O/P: FULL LOAD | O.T.P. Active Shut down o/p voltage, recovers automatically after temperature goes down |
| 4 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P: 305VAC O/P: FULL LOAD Ta: 25°C | NO DAMAGE Constant current limiting, recovers automatically after fault condition is removed |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|--|--------------------------|---|--|
| 1 | Power Transistor (D to S) or (C to E) Peak Voltage | Q5 Rated 12A/500V | I/P : High-Line +3V = 308V O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C | (1) 470 V (2) 454 V (3) 452 V |
| 2 | Diode Peak Voltage | Q101 Rated 57A/100V | I/P : High-Line +3V = 308V O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C | (1) 83.2 V (2) 24.4 V (3) 73.2 V |
| | | Q102 Rated 0.57A/100V | I/P : High-Line +3V = 308 V O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C | (1) 78.2 V (2) 38.8 V (3) 73.2 V |
| 3 | Input Capacitor Voltage | C5 Rated: 82u/450V | I/P : High-Line +3V = 308V O/P : (1) Full Load Turn on /Off (2) Min load Turn on /Off (3) Full Load /Min load Change Ta : 25°C | (1) 435.5 V (2) 436.7 V (3) 436.8 V |
| 4 | Control IC Voltage Test | U 900 Rated 8.85V~16V | I/P : High-Line +3V = 308V O/P : (1) Full Load Turn on /Off (2) Min load Turn on /Off (3) Full Load /Min load Change Ta : 25°C | (1) 12.667 V (2) 12.453 V (3) 12.497 V |
| 5 | P.F.C Transistor (D to S) or (C to E) Peak Voltage | Q1 Rated 17A/600V | I/P : High-Line +3V = 308 V O/P : (1) Full Load Turn on (2) Output Short (3) Full load continue Ta : 25°C | (1) 484 V (2) 456 V (3) 458 V |

SAFETY & EMC TEST

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|--|---|---|
| 1 | WITHSTAND VOLTAGE | IEC60950-1 I/P-O/P: 3.75KVAC/min I/P-FG:2 KVAC/min<4.5mA O/P-FG:1.5KVAC/min | I/P-O/P: 4 KVAC/min I/P-FG: 2.4KVAC/min O/P-FG: 1.8 KVAC/min Ta:25°C | I/P-O/P: 2.599 mA I/P-FG: 2.3327 mA O/P-FG: 3.7 mA NO DAMAGE |
| 2 | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ | I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C | I/P-O/P: 18 GΩ I/P-FG: 12.5 GΩ O/P-FG: 30 GΩ NO DAMAGE |
| 3 | GROUNDING CONTINUITY | IEC60950-1 FG(PE) TO CHASSIS OR TRACE < 100 mΩ | 40A / 2min Ta:25°C | 11 mΩ |
| 4 | LEAKAGE CURRENT | IEC60950-1 < 0.75 mA / 240VAC | I/P: 240 VAC O/P:Min LOAD Ta:25°C | L-FG: 0.22 mA N-FG: 0.22 mA |
| 5 | APPROVAL | TUV: Certificate NO : E334940 UL: File NO : R50185176 | | |

E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|--|--|-------------------------------|
| 1 | HARMONIC | EN61000-3-2 CLASS C | I/P: 240VAC/50HZ LOAD:LED/ELECTRONIC LOAD O/P:100% LOAD Ta:25°C | PASS |
| 2 | CONDUCTION | EN55022 EN55015 CLASS B | I/P: 230 VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C | PASS Test by certified Lab |
| 3 | RADIATION | EN55022 EN55015 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 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 INDUSTRY INPUT: 2KV | I/P: 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | CRITERIA A |
| 6 | SURGE | IEC61000-4-5 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

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|---|---|---|-----------|----------|-----------------------------|-----------------------------|---|-----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|------|--------|--------|---|----|--------|--------|---|----|--------|--------|---|------|--------|--------|----|----|--------|--------|----|------|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|------|--------|--------|----|----|--------|--------|--|
| 1 | TEMPERATURE RISE TEST | MODEL : HLG-120H-24 1. ROOM AMBIENT BURN-IN : 2.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 27.6 °C 2. HIGH AMBIENT BURN-IN : 5.5HRS I/P : 230VAC O/P : FULL LOAD Ta= 54.8 °C | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 27.6 °C</th> <th>HIGH AMBIENT Ta= 54.8 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>BD1</td><td>50.1°C</td><td>70.3°C</td></tr> <tr><td>2</td><td>Q1</td><td>51.2°C</td><td>71.2°C</td></tr> <tr><td>3</td><td>L2</td><td>52.2°C</td><td>72.0°C</td></tr> <tr><td>4</td><td>Q5</td><td>51.7°C</td><td>71.6°C</td></tr> <tr><td>5</td><td>D2</td><td>52.6°C</td><td>72.3°C</td></tr> <tr><td>6</td><td>RTH2</td><td>49.6°C</td><td>69.6°C</td></tr> <tr><td>7</td><td>C5</td><td>49.0°C</td><td>68.8°C</td></tr> <tr><td>8</td><td>T1</td><td>54.2°C</td><td>73.4°C</td></tr> <tr><td>9</td><td>Q101</td><td>51.1°C</td><td>71.1°C</td></tr> <tr><td>10</td><td>D9</td><td>50.4°C</td><td>70.4°C</td></tr> <tr><td>11</td><td>C102</td><td>48.3°C</td><td>68.5°C</td></tr> <tr><td>12</td><td>C201</td><td>49.9°C</td><td>69.9°C</td></tr> <tr><td>13</td><td>C38</td><td>51.6°C</td><td>71.5°C</td></tr> <tr><td>14</td><td>U900</td><td>50.1°C</td><td>70.3°C</td></tr> <tr><td>15</td><td>U1</td><td>51.6°C</td><td>71.9°C</td></tr> </tbody> </table> | NO | Position | ROOM AMBIENT Ta= 27.6 °C | HIGH AMBIENT Ta= 54.8 °C | 1 | BD1 | 50.1°C | 70.3°C | 2 | Q1 | 51.2°C | 71.2°C | 3 | L2 | 52.2°C | 72.0°C | 4 | Q5 | 51.7°C | 71.6°C | 5 | D2 | 52.6°C | 72.3°C | 6 | RTH2 | 49.6°C | 69.6°C | 7 | C5 | 49.0°C | 68.8°C | 8 | T1 | 54.2°C | 73.4°C | 9 | Q101 | 51.1°C | 71.1°C | 10 | D9 | 50.4°C | 70.4°C | 11 | C102 | 48.3°C | 68.5°C | 12 | C201 | 49.9°C | 69.9°C | 13 | C38 | 51.6°C | 71.5°C | 14 | U900 | 50.1°C | 70.3°C | 15 | U1 | 51.6°C | 71.9°C | |
| NO | Position | ROOM AMBIENT Ta= 27.6 °C | HIGH AMBIENT Ta= 54.8 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BD1 | 50.1°C | 70.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Q1 | 51.2°C | 71.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | L2 | 52.2°C | 72.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Q5 | 51.7°C | 71.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | D2 | 52.6°C | 72.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | RTH2 | 49.6°C | 69.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C5 | 49.0°C | 68.8°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | T1 | 54.2°C | 73.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Q101 | 51.1°C | 71.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | D9 | 50.4°C | 70.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | C102 | 48.3°C | 68.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | C201 | 49.9°C | 69.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | C38 | 51.6°C | 71.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | U900 | 50.1°C | 70.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | U1 | 51.6°C | 71.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OVER LOAD BURN-IN TEST | NO DAMAGE 1 HOUR (MIN) | I/P : 305 VAC O/P : O/P SHORT TEST Ta : 25°C | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P : 305VAC/230 VAC/100VAC O/P : 95% LOAD Ta= -40 °C | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST | AFTER 12 HOURS IN CHAMBER ON CONTROL 60 °C NO DAMAGE | I/P : 305 VAC O/P : 95% Ta= 60 °C HUMIDITY= 95 %R.H | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | TEMPERATURE COEFFICIENT | ± 0.03 % (0~60°C) | I/P : 230 VAC O/P : FULL LOAD | ± 0.002 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | STORAGE TEMPERATURE TEST | 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 : 5 CYCLE 5. Input/Output condition : STATIC | | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | THERMAL SHOCK TEST | 1. Thermal shock Temperature : -35°C ~ +65°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 : 230VAC/Full Load TURN ON/58 'SEC.;TURN OFF/2SEC. | | OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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|----|--------------------------|--|--|
| 8 | VIBRATION TEST | <p>1 Carton & 1 Set</p> <p>(1) Waveform : Sine Wave</p> <p>(2) Frequency : 10~500Hz</p> <p>(3) Sweep Time : 12min/sweep cycle</p> <p>(4) Acceleration : 5G</p> <p>(5) Test Time : 72min in each axis (X.Y.Z)</p> <p>(6) Ta : 25°C</p> | TEST : OK |
| 9 | CAPACITOR LIFE CYCLE | <p>HLG-120H-24:SUPPOSE C102 IS THE MOST CRITICAL COMPONENT</p> <p>(1) I/P : 230VAC O/P : FULL LOAD Tc= 75 °C LIFE TIME</p> <p>(2) I/P : 230VAC O/P : 75% LOAD Tc= 75 °C LIFE TIME</p> <p>(3) I/P : 230VAC O/P : 50% LOAD Tc= 75 °C LIFE TIME</p> | <p>(1) 86903 HRS</p> <p>(2) 99131HRS</p> <p>(3) 101277 HRS</p> |
| 10 | MTBF | <p>Conducted by Parts Stress Analysis Prediction</p> <p>559.5K hrs min. Telcordia SR-332 (Bellcore); 167.1Khrs min. MIL-HDBK-217F (25°C)</p> | OK |
| 11 | Ongoing Reliability Test | <p>I/P : 230VAC O/P : FULL LOAD TA=50°C</p> <p>Demonstration Mean Time Between Failure : 62,000 hours</p> | |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|-------------------|-------------------|----------------------|
| PASS | DANIEL GAO | SANFORD SU | VINCENT TSENG |

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