



Test Report: LAD-600BU/B

600W Economical Security/ Fire Alarm PSU with Battery
Charger/UPS

■ 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

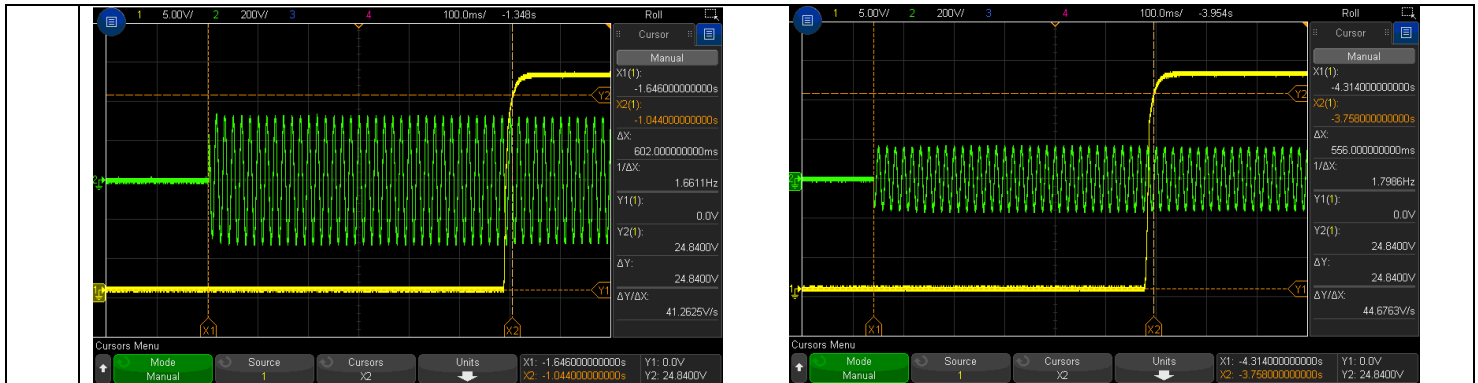
ENVIRONMENT TEST

LAD-600BU

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

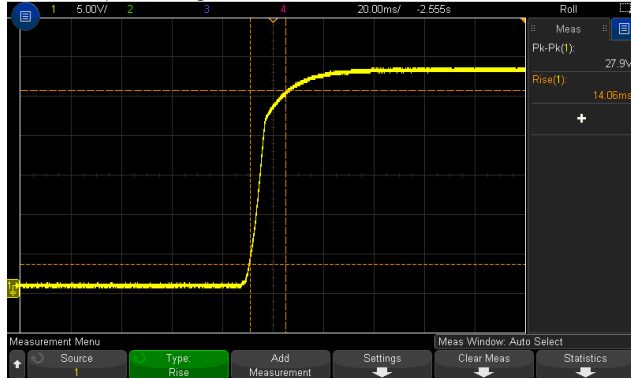
| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|---|----------------------------------|--------------------------------|--|--|
| 1 | OUTPUT VOLTAGE ADJUST RANGE | CH1: 21.6V~29V | I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C | 20.62V~29.90V/230VAC 20.62V~29.90V/115VAC |
| 2 | OUTPUT VOLTAGE(Max) TOLERANCE | V1: -1% ~ +1 % | I/P: 230VAC O/P:FULL/ MIN. LOAD Ta:25°C | V1: -0.16%~ 0.18% |
| 3 | LINE REGULATION (Max) | V1: -0.5 %~ +0.5 % | I/P: 90VAC~ 264VAC O/P:FULL LOAD Ta:25°C | V1: -0.01%~ 0.07% |
| 4 | LOAD REGULATION(Max) | V1: -0.5 %~ +0.5 % | I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C | V1: -0.16%~ 0.18% |
| 5 | OVER/UNDERSHOOT TEST | < ±5% | I/P: 230VAC O/P:FULL LOAD Ta:25°C | 2.16% |
| 6 | RIPPLE & NOISE(Max) | V1: 270mVp-p | I/P:230VAC O/P: TESTING LOAD Ta:25°C | V1: 100mVp-p |
| <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>high frequency :</p> </div> <div style="text-align: center;"> <p>low frequency :</p> </div> </div> | | | | |
| 7 | SET UP TIME(Max) | 230VAC/2000ms 115VAC/2000ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 602ms 115VAC/ 556ms |
| INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage | | | INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage | |



| | | | | |
|---|-----------------|----------------------------|--|------------------------------------|
| 8 | RISE TIME (Max) | 230VAC/50ms 115VAC/50ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 14.06ms 115VAC/ 13.42ms |
|---|-----------------|----------------------------|--|------------------------------------|

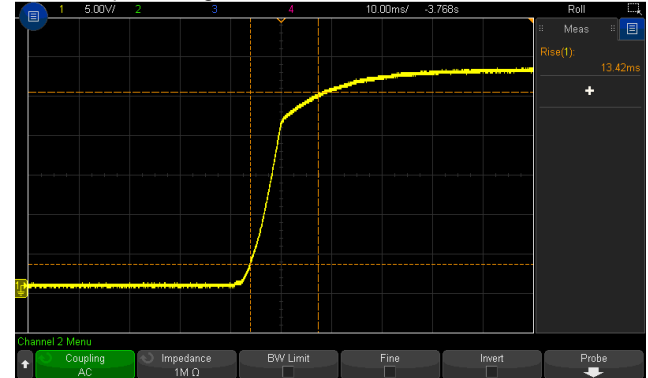
INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage



INPUT=115VAC/60HZ @ FULL LOAD

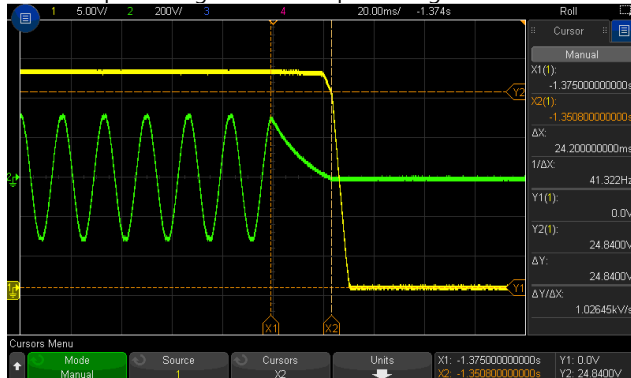
CH1 : Output Voltage



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|---|---------------------|----------------------------|--|----------------------------------|
| 9 | HOLD UP TIME (Typ.) | 230VAC/16ms 115VAC/12ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 24.2ms 115VAC/ 22.2ms |
|---|---------------------|----------------------------|--|----------------------------------|

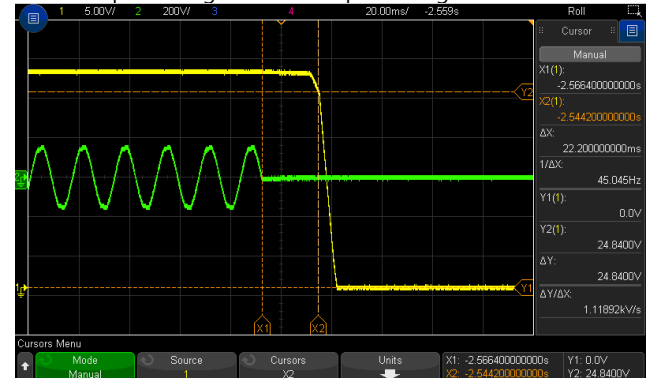
INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage



| | | | | |
|----|--------------|---------------|---|-----------------------|
| 10 | DYNAMIC LOAD | V1: 2760mVp-p | I/P: 230VAC O/P: (1)FULL /MIN LOAD 50%DUTY / 120HZ (2)FULL /MIN LOAD 50%DUTY / 1KHZ Ta:25°C | 1370mVp-p 753mVp-p |
|----|--------------|---------------|---|-----------------------|

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|----|----------------------------------|-------------------------------------|---|--------|
| | | | | |
| 11 | Battery static discharge current | After battery low protection <100uA | I/P : 230 VAC O/P : TESTING Ta : 25°C | 0.06uA |
| 12 | BAT RATED CURRENT | 3±0.3A | I/P: 230VAC O/P:CV=24V Ta:25°C | 2.95A |

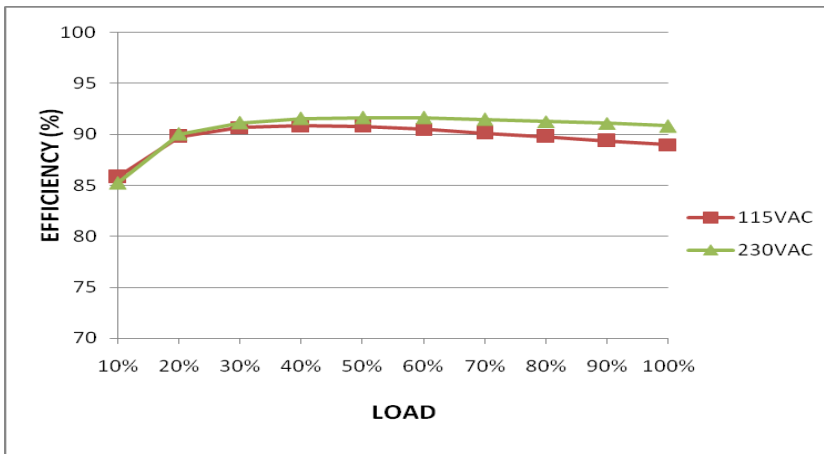
INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------|---|---|--|
| 1 | INPUT VOLTAGE RANGE | 90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (Default switch at 230VAC) | (1) I/P:TESTING O/P:FULL LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 80% LOAD (switch on 230VAC) (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 80% LOAD (switch on 230VAC) Ta:25°C I/P: switch on 115VAC : LOW-LINE-3V=87 V HIGH-LINE+15%=150V switch on 230VAC : LOW-LINE-3V=177 V HIGH-LINE+15%=300 VVO/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE) | (1) 85V~132V/ FULL LOAD 83V~132V/ 80% LOAD 155V~264V/ FULL LOAD 155V~264V/ 80% LOAD (switch on 230VAC) (2) 236.1Vdc~370Vdc/FULL LOAD 236.1Vdc~370Vdc/80% LOAD (3) 236.1Vdc~370Vdc/FULL LOAD 236.1Vdc~370Vdc/80% LOAD TEST: OK |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE | I/P: 90 ~ 132VAC / 180 ~ 264VAC by switch O/P:FULL~MIN LOAD Ta:25°C | TEST: OK |



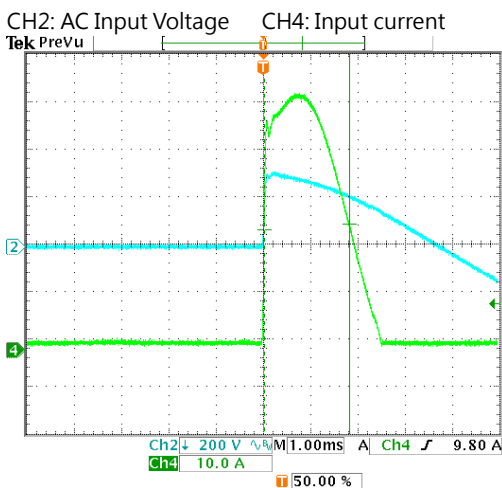
| | | | | |
|---|----------------------|---------------------------|--|--|
| 3 | INPUT CURRENT (Typ.) | 230V/ 7.5 A 115V/ 12 A | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I = 5.48A/ 230VAC I = 9.35A/ 115VAC |
| 4 | LEAKAGE CURRENT | < 0.5mA Peak / 240 VAC | I/P : 240 VAC O/P : Min LOAD Ta : 25°C | 0.457 mA (PEAK) 0.214 mA (RMS) |
| 5 | EFFICIENCY(Typ.) | 90% | I/P:230 VAC O/P:FULL LOAD Ta:25°C | 90.2% |

EFFICIENCY vs LOAD

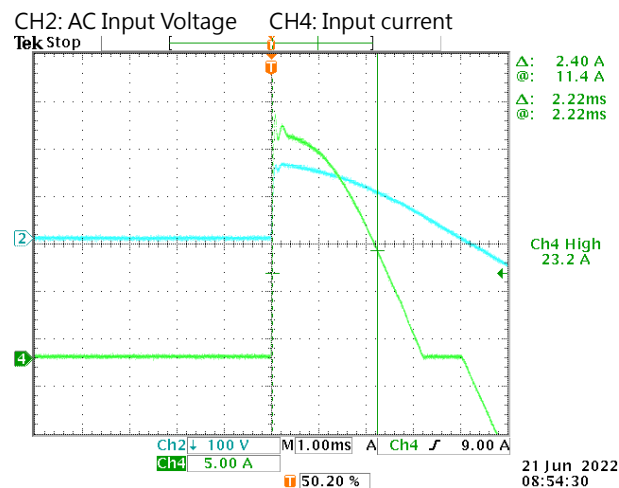


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|---|----------------------|------------------------------------|--|--|
| 6 | INRUSH CURRENT(Typ.) | 230V/60A 115V/35A COLD START | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I = 53.6A/ 230VAC T50=1.80ms/230V I = 23.2A/ 115VAC T50=2.22ms/115V |
|---|----------------------|------------------------------------|--|--|

INPUT=230VAC/50HZ @ FULL LOAD



INPUT=115VAC/ 60HZ @ FULL LOAD



21 Jun 2022 08:54:30

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------------|--|--|---|
| 1 | OVER LOAD PROTECTION | <p>CH1 : 105%~135%</p> <p>CH2 : 90 ~ 110%</p> <p>Protection type :</p> <p>CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down</p> <p>CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed</p> <p>CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)</p> | <p>I/P: 264VAC</p> <p>I/P: 230VAC</p> <p>I/P: 100VAC</p> <p>O/P:TESTING</p> <p>Ta:25°C</p> | <p>116.8%/ 264VAC</p> <p>116.8%/ 230VAC</p> <p>116.8%/100VAC</p> <p>Protection type :</p> <p>CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down</p> <p>CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed</p> <p>CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)</p> |
| 2 | OVER VOLTAGE PROTECTION | <p>CH1: 31~36V</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p> | <p>I/P: 264VAC</p> <p>I/P: 230VAC</p> <p>I/P: 90VAC</p> <p>O/P:MIN LOAD</p> <p>Ta:25°C</p> | <p>32.9V/ 264VAC</p> <p>33.1V/ 230VAC</p> <p>33.1V/ 90VAC</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p> |
| 3 | OVER TEMPERATURE PROTECTION | <p>Protection type :</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p> | <p>I/P: 264VAC</p> <p>I/P: 90VAC</p> <p>O/P:FULL LOAD</p> | <p>O.T.P. Active OK</p> <p>Protection type :</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p> |
| 4 | BATTERY CUTOFF | <p>21.5±0.5V</p> | <p>I/P: 230 VAC</p> <p>O/P:BAT. LOAD</p> <p>Ta:25°C</p> | <p>21.6 V</p> |
| 5 | BATTERY REVERSE POLARITY | <p>Protection type :</p> <p>Protected by reverse polarity , no damage, recovers automatically after fault condition is removed</p> | <p>I/P: 230 VAC</p> <p>O/P:BAT. LOAD</p> <p>Ta:25°C</p> | <p>TEST : <u>OK</u></p> |

CONTROL FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|--|--|--|
| 1 | AC OK | 115VAC Input : Signals AC failure and activates when input voltage <75VAC Recover the main power supply when input voltage >87VAC 230VAC Input : Signals AC failure and activates when input voltage <165VAC Recover the main power supply when input voltage >175VAC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | TEST : (1) 115VAC : ≤ <u>79.4V</u> AC failure ≥ <u>86.4V</u> AC OK (2) 230VAC : ≤ <u>165.7V</u> AC failure ≥ <u>178.9V</u> AC OK |
| 2 | CHARGER CIRCUIT FAIL | Battery disconnected, battery reverse polarity , signal failure | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | TEST: <u>OK</u> |
| 3 | BUZZER ALARM | Battery low(fire alarm system selectable by UART) AC fail, Battery low, battery disconnected, battery reverse connect, overload status (evacuation system selectable by UART) | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | TEST: <u>OK</u> |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|-----------------------------|--|--|
| 1 | PWM Transistor (D to S) or (C to E) Peak Voltage | Q 1/Q2 Rated : 26A/ 600V | 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 (7)0%→400% Load. Ta:25°C | Q1 Q2 VDS: VDS: (1) 435V (2) 441V (3) 424V (4) 427V (5) 427V (6) 446V (7) 441V (1) 421V (2) 421V (3) 413V (4) 424V (5) 419V (6) 441V (7) 427V |

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|---|---|--|--|--|
| 2 | BAT BUCK Transistor (D to S) or (C to E) Peak Voltage | Q 304 Rated : 70A/60V | AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=54.2V (2)CV(min)=43.5V (3)no load (4)OUTPUT SHORT Ta:25°C | Q304 VDS : (1) 40.9V (2) 40.3V (3) 30.7V (4) 41.2V |
| 3 | Diode Peak Voltage | D100 /D103 Rated : 30A/100V | AC ON/OFF I/P:High-Line +3V =267V <u>Vo=Vmax</u> 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)0%→400% Load. (8)NO LOAD <u>Vo=Vnormal</u> O/P: (1)Full Load Ta:25°C | D100: <u>Vo=Vmax</u> VDS: (1) 65.2V (2) 65.2V (3) 64.8V (4) 65.2V (5) 65.7V (6) 65.2V (7) 64.8V (8) 64.3V <u>Vo=Vnormal</u> (1) 62.8V D103: <u>Vo=Vmax</u> VDS: (1) 69.1V (2) 71.5V (3) 69.1V (4) 69.1V (5) 70.1V (6) 71.0V (7) 67.2V (8) 67.2V <u>Vo=Vnormal</u> (1) 66.2V |
| 4 | BAT BUCK Diode Peak Voltage | D320 Rated : 10A/100V | AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1) CV (max)-1=54.2V (2) CV(min)=43.5V (3) no load (4) OUTPUT SHORT Ta:25°C | D320 VDS : (1) 44.0V (2) 42.8V (3) 32.7V (4) 43.0V |
| 5 | Input Capacitor Voltage | C5/C6 Rated: : 1000μ / 200V | 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 | C5 C6 (1) 197V (1) 194V (2) 187V (2) 194V (3) 194V (3) 193V (4) 192V (4) 194V |
| 6 | Control IC Voltage Test | PWM IC U1 Rated 8.9 V~ 15.5V MCU IC U300 Rated 2.4V~ 3.6V BAT BUCK IC U304 Rated 8.4V~ 30V | AC ON/OFF U1/U300 I/P:High-Line +3V =267V O/P:(1) FULL LOAD (2) Output Short (3) O.L.P (4) O.V.P. (5) NO LOAD VRmin (LOW LINE) U304 | U1 U304: (1) 14.11V (1) 11.44V (2) 13.82V (2) 11.44V (3) 13.63V (3) 11.28V (4) 14.59V (4) 11.44V (5) 13.63V U300 (1) 3.3V |

| | | | | |
|--|--|--|--|---|
| | | | I/P:High-Line +3V = 267 V VDS : O/P: (1) CV (max)-1=26.6V (2) CV(min)=21V (3) no load (4) OUTPUT SHORT Ta:25°C | (2) 3.32V (3) 3.3V (4) 3.3V (5) 3.3V |
|--|--|--|--|---|

■ SAFETY& E.M.C. TEST

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|---|---|---|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:0.5KVAC/min | I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C | I/P-O/P: 2.83mA I/P-FG: 2.74mA O/P-FG: 2.07 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: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C | I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG: 9999MΩ NO DAMAGE |
| 3 | GROUNDING CONTINUITY | FG(PE) TO CHASSIS OR TRACE < 100mΩ | 40A / 2min Ta:25°C | 8mΩ |

E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|---|--|---|
| 1 | CONDUCTION | BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A | I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C | PASS Test by certified Lab |
| 2 | RADIATION | BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A | I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C | PASS Test by certified Lab |
| 3 | E.S.D | BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 6KV contact | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 4 | E.F.T | BS EN/EN61000-4-4 INPUT : 2KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 5 | SURGE | BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Line-FG | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 6 | Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report | | | |

LAD-600B

CONTROL FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|--|--|------------------|
| 1 | AC OK | TTL signal, High/Open : AC OK ; Low : AC Fail ; Ice : max. 30mA@ 50VDC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | Test: <u>OK</u> |
| 2 | DISCHARGE | TTL signal, High/Open : Discharge ; Low : Charge ; Ice : max. 30mA@ 50VDC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | Test: <u>OK</u> |
| 3 | BATTERY FULL | TTL signal, High/Open : Battery full ; Low : Battery charging ; Ice : max. 30mA@ 50VDC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | Test: <u>OK</u> |
| 4 | BATTERY DISCONNECT/ REVERSE POLARITY | TTL signal, High/Open :Battery disconnect/reverse polarity ; Low : Battery connect/normal; Ice : max. 30mA@ 50VDC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | Test: <u>OK</u> |
| 5 | BATTERY LOW | TTL signal, High/Open : Battery low ; Low : Battery normal; Ice : max. 30mA@ 50VDC | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | Test: <u>OK</u> |
| 6 | FORCE START | CN2 : PIN7&PIN8 SHORT | I/P: 230 VAC O/P:BAT. LOAD Ta:25°C | TEST : <u>OK</u> |

■ SAFETY& E.M.C. TEST

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-------------------------|---|---|--|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:0.5KVAC/min | I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C | I/P-O/P: 2.82mA I/P-FG: 2.74mA O/P-FG: 2.11 m A 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: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C | I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG: 9999MΩ NO DAMAGE |
| 3 | GROUNDING CONTINUITY | FG(PE) TO CHASSIS OR TRACE < 100 mΩ | 40A / 2min Ta:25°C | 8mΩ |

E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|---|--|---|
| 1 | CONDUCTION | BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A | I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C | PASS Test by certified Lab |
| 2 | RADIATION | BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A | I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C | PASS Test by certified Lab |
| 3 | E.S.D | BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 6KV contact | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 4 | E.F.T | BS EN/EN61000-4-4 INPUT : 2KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 5 | SURGE | BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Line-FG | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | <input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B |
| 6 | 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 : LAD-600BU 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25 °C</th> <th>HIGH AMBIENT Ta= 50 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>RTH1</td><td>33.7°C</td><td>60.0°C</td></tr> <tr><td>2</td><td>C1</td><td>28.1°C</td><td>54.8°C</td></tr> <tr><td>3</td><td>C94</td><td>33.8°C</td><td>61.7°C</td></tr> <tr><td>4</td><td>BD1</td><td>45.2°C</td><td>70.9°C</td></tr> <tr><td>5</td><td>LF2</td><td>30.6°C</td><td>56.9°C</td></tr> <tr><td>6</td><td>RY1</td><td>33.1°C</td><td>60.0°C</td></tr> <tr><td>7</td><td>C6</td><td>39.7°C</td><td>64.1°C</td></tr> <tr><td>8</td><td>Q1</td><td>58.8°C</td><td>93.2°C</td></tr> <tr><td>9</td><td>L301</td><td>31.6°C</td><td>57.5°C</td></tr> <tr><td>10</td><td>Q2</td><td>58.5°C</td><td>91.4°C</td></tr> <tr><td>11</td><td>C38</td><td>38.5°C</td><td>64.9°C</td></tr> <tr><td>12</td><td>T1coil</td><td>55.3°C</td><td>82.3°C</td></tr> </tbody> </table> | NO | Position | ROOM AMBIENT Ta= 25 °C | HIGH AMBIENT Ta= 50 °C | 1 | RTH1 | 33.7°C | 60.0°C | 2 | C1 | 28.1°C | 54.8°C | 3 | C94 | 33.8°C | 61.7°C | 4 | BD1 | 45.2°C | 70.9°C | 5 | LF2 | 30.6°C | 56.9°C | 6 | RY1 | 33.1°C | 60.0°C | 7 | C6 | 39.7°C | 64.1°C | 8 | Q1 | 58.8°C | 93.2°C | 9 | L301 | 31.6°C | 57.5°C | 10 | Q2 | 58.5°C | 91.4°C | 11 | C38 | 38.5°C | 64.9°C | 12 | T1coil | 55.3°C | 82.3°C |
| NO | Position | ROOM AMBIENT Ta= 25 °C | HIGH AMBIENT Ta= 50 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | RTH1 | 33.7°C | 60.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | C1 | 28.1°C | 54.8°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | C94 | 33.8°C | 61.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | BD1 | 45.2°C | 70.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | LF2 | 30.6°C | 56.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | RY1 | 33.1°C | 60.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C6 | 39.7°C | 64.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Q1 | 58.8°C | 93.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | L301 | 31.6°C | 57.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Q2 | 58.5°C | 91.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | C38 | 38.5°C | 64.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | T1coil | 55.3°C | 82.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 25 °C</th> <th>HIGH AMBIENT Ta= 50 °C</th> </tr> </thead> <tbody> <tr><td>13</td><td>T1core</td><td>60.9°C</td><td>85.7°C</td></tr> <tr><td>14</td><td>RTH3</td><td>63.1°C</td><td>87.5°C</td></tr> <tr><td>15</td><td>D101</td><td>29.4°C</td><td>56.4°C</td></tr> <tr><td>16</td><td>D103</td><td>71.9°C</td><td>98.4°C</td></tr> <tr><td>17</td><td>Q305</td><td>32.0°C</td><td>58.3°C</td></tr> <tr><td>18</td><td>RY101</td><td>31.3°C</td><td>57.6°C</td></tr> <tr><td>19</td><td>U300</td><td>28.1°C</td><td>54.2°C</td></tr> <tr><td>20</td><td>R100</td><td>61.3°C</td><td>86.3°C</td></tr> <tr><td>21</td><td>C112</td><td>43.0°C</td><td>69.4°C</td></tr> <tr><td>22</td><td>C111</td><td>49.0°C</td><td>75.3°C</td></tr> <tr><td>23</td><td>U301</td><td>30.1°C</td><td>56.5°C</td></tr> <tr><td>24</td><td>U500</td><td>39.2°C</td><td>64.9°C</td></tr> <tr><td>25</td><td>U304</td><td>29.2°C</td><td>56.3°C</td></tr> <tr><td>26</td><td>Q304</td><td>31.2°C</td><td>57.9°C</td></tr> <tr><td>27</td><td>D340</td><td>29.7°C</td><td>56.3°C</td></tr> <tr><td>28</td><td>U102</td><td>46.0°C</td><td>71.2°C</td></tr> <tr><td>29</td><td>J107</td><td>59.0°C</td><td>83.1°C</td></tr> <tr><td>30</td><td>BD2</td><td>35.9°C</td><td>61.5°C</td></tr> <tr><td>31</td><td>Q40</td><td>54.1°C</td><td>81.7°C</td></tr> <tr><td>32</td><td>RG2</td><td>61.3°C</td><td>86.5°C</td></tr> <tr><td>33</td><td>U1</td><td>41.5°C</td><td>67.1°C</td></tr> <tr><td>34</td><td>U6</td><td>43.5°C</td><td>68.3°C</td></tr> <tr><td>35</td><td>Q200</td><td>80.9°C</td><td>107.5°C</td></tr> <tr><td>36</td><td>D30</td><td>51.0°C</td><td>75.5°C</td></tr> <tr><td>37</td><td>U2</td><td>47.7°C</td><td>72.2°C</td></tr> <tr><td>38</td><td>D48</td><td>46.6°C</td><td>71.1°C</td></tr> <tr><td>39</td><td>D24</td><td>35.9°C</td><td>61.0°C</td></tr> <tr><td>40</td><td>C346</td><td>31.7°C</td><td>57.9°C</td></tr> <tr><td>41</td><td>R89</td><td>37.8°C</td><td>64.0°C</td></tr> <tr><td>42</td><td>U7</td><td>34.0°C</td><td>60.2°C</td></tr> <tr><td>43</td><td>D104</td><td>59.8°C</td><td>85.2°C</td></tr> <tr><td>44</td><td>U305</td><td>32.8°C</td><td>58.9°C</td></tr> </tbody> </table> | | NO | Position | ROOM AMBIENT Ta= 25 °C | HIGH AMBIENT Ta= 50 °C | 13 | T1core | 60.9°C | 85.7°C | 14 | RTH3 | 63.1°C | 87.5°C | 15 | D101 | 29.4°C | 56.4°C | 16 | D103 | 71.9°C | 98.4°C | 17 | Q305 | 32.0°C | 58.3°C | 18 | RY101 | 31.3°C | 57.6°C | 19 | U300 | 28.1°C | 54.2°C | 20 | R100 | 61.3°C | 86.3°C | 21 | C112 | 43.0°C | 69.4°C | 22 | C111 | 49.0°C | 75.3°C | 23 | U301 | 30.1°C | 56.5°C | 24 | U500 | 39.2°C | 64.9°C | 25 | U304 | 29.2°C | 56.3°C | 26 | Q304 | 31.2°C | 57.9°C | 27 | D340 | 29.7°C | 56.3°C | 28 | U102 | 46.0°C | 71.2°C | 29 | J107 | 59.0°C | 83.1°C | 30 | BD2 | 35.9°C | 61.5°C | 31 | Q40 | 54.1°C | 81.7°C | 32 | RG2 | 61.3°C | 86.5°C | 33 | U1 | 41.5°C | 67.1°C | 34 | U6 | 43.5°C | 68.3°C | 35 | Q200 | 80.9°C | 107.5°C | 36 | D30 | 51.0°C | 75.5°C | 37 | U2 | 47.7°C | 72.2°C | 38 | D48 | 46.6°C | 71.1°C | 39 | D24 | 35.9°C | 61.0°C | 40 | C346 | 31.7°C | 57.9°C | 41 | R89 | 37.8°C | 64.0°C | 42 | U7 | 34.0°C | 60.2°C | 43 | D104 | 59.8°C | 85.2°C | 44 | U305 | 32.8°C | 58.9°C |
|----|---|---|---|---------------------|----------|------------------------|------------------------|----|--------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|-------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|-----|--------|--------|----|-----|--------|--------|----|----|--------|--------|----|----|--------|--------|----|------|--------|---------|----|-----|--------|--------|----|----|--------|--------|----|-----|--------|--------|----|-----|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|----|--------|--------|----|------|--------|--------|----|------|--------|--------|
| NO | Position | ROOM AMBIENT Ta= 25 °C | HIGH AMBIENT Ta= 50 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | T1core | 60.9°C | 85.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | RTH3 | 63.1°C | 87.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | D101 | 29.4°C | 56.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | D103 | 71.9°C | 98.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Q305 | 32.0°C | 58.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | RY101 | 31.3°C | 57.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | U300 | 28.1°C | 54.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | R100 | 61.3°C | 86.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | C112 | 43.0°C | 69.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | C111 | 49.0°C | 75.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | U301 | 30.1°C | 56.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | U500 | 39.2°C | 64.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | U304 | 29.2°C | 56.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Q304 | 31.2°C | 57.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | D340 | 29.7°C | 56.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | U102 | 46.0°C | 71.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | J107 | 59.0°C | 83.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | BD2 | 35.9°C | 61.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | Q40 | 54.1°C | 81.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | RG2 | 61.3°C | 86.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | U1 | 41.5°C | 67.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | U6 | 43.5°C | 68.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | Q200 | 80.9°C | 107.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | D30 | 51.0°C | 75.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | U2 | 47.7°C | 72.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | D48 | 46.6°C | 71.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | D24 | 35.9°C | 61.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | C346 | 31.7°C | 57.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | R89 | 37.8°C | 64.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | U7 | 34.0°C | 60.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | D104 | 59.8°C | 85.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | U305 | 32.8°C | 58.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OVER LOAD BURN-IN TEST | NO DAMAGE 1 HOUR (MIN) | I/P : 230 VAC O/P : 116.4%LOAD Ta : 25°C | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P : 264VAC/100VAC O/P : 100 %LOAD Ta= -25°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= 49.7°C HUMIDITY= 95 %R.H | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | TEMPERATURE COEFFICIENT | ±0.03%/°C(0~50°C) | I/P : 230 VAC O/P : FULL LOAD | ±0.0078%/°C(0~50°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| 6 | STORAGE TEMPERATURE TEST | -30~85°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 | -20~50°C | 1. Thermal shock Temperature : -25°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 | SUPPOSE C111 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) 626097.6HRS (2) 101142.4HRS (3) 198279.4HRS (4) 324958.7HRS |
| 10 | MTBF | Conducted by Parts Stress Analysis Prediction LAD-600B: 1154.4K hrs min. Telcordia SR-332 (Bellcore); 169.9K hrs min. MIL-HDBK-217F (25°C) LAD-600BU: 1019.6K hrs min. Telcordia SR-332 (Bellcore); 144.4K 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 | Yuwei | Liutt | Wangdz |

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