



Test Report: RS-35-5

35W Single Output 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

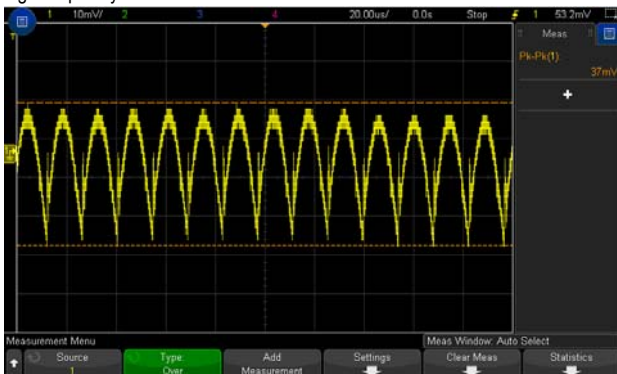
ENVIRONMENT TEST

DESIGN VERIFY TEST

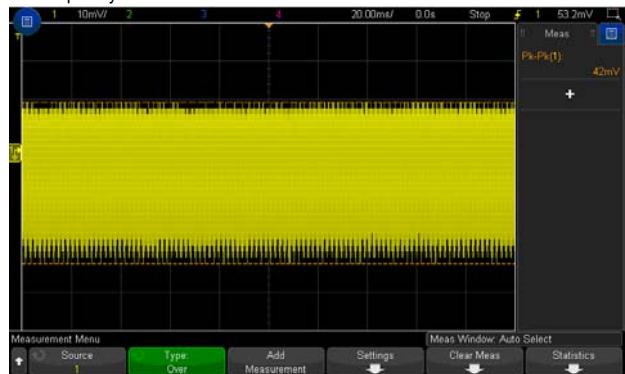
OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-------------------------------|-------------------|---------------------------------------------------------------|--------------------------------------------|
| 1 | OUTPUT VOLTAGE ADJUST RANGE | CH1: 4.5V~5.5V | I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C | 4.34V~5.89V/230VAC 4.34V~5.89V V/115VAC |
| 2 | OUTPUT VOLTAGE(Max) TOLERANCE | V1: -2%~ 2 % | I/P: 88VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25°C | V1: -0.06 %~ 0.06% |
| 3 | LINE REGULATION (Max) | V1: -0.5 %~ 0.5 % | I/P: 88VAC~ 264VAC O/P:FULL LOAD Ta:25°C | V1: -0.01 %~0.01% |
| 4 | LOAD REGULATION(Max) | V1: -1 %~1 % | I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C | V1: -0.06 %~ 0.06% |
| 5 | OVER/UNDERSHOOT TEST | < ±10% | I/P: 230VAC O/P:FULL LOAD Ta:25°C | 2.8 % |
| 6 | RIPPLE & NOISE(Max) | V1: 80 mVp-p | I/P:230VAC O/P:FULL LOAD Ta:25°C | V1: 42mVp-p |

high frequency :



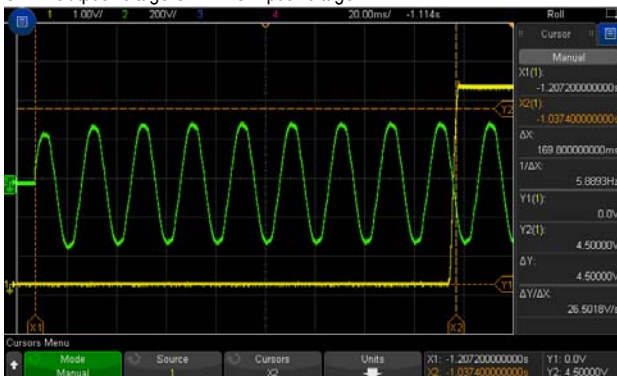
low frequency :



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|---|------------------|---------------------------------|----------------------------------------------------------------|----------------------------------|
| 7 | SET UP TIME(Max) | 500ms /230VAC 1200ms /115VAC | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 169.8ms 115VAC/ 243ms |
|---|------------------|---------------------------------|----------------------------------------------------------------|----------------------------------|

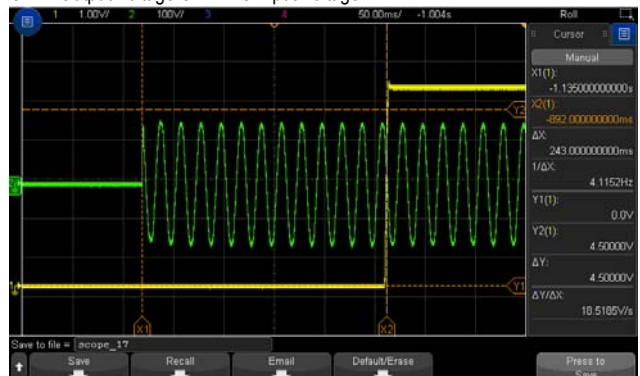
INPUT=230VAC/50HZ @ FULL LOAD

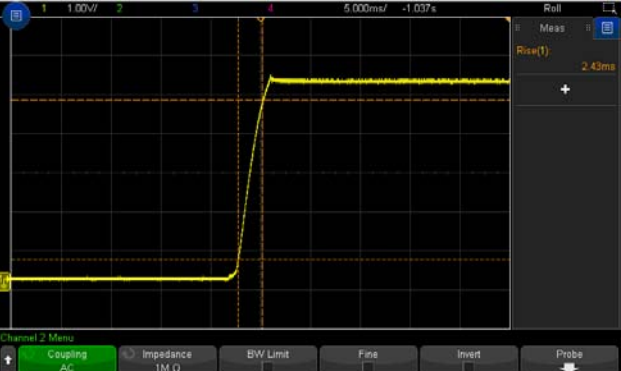
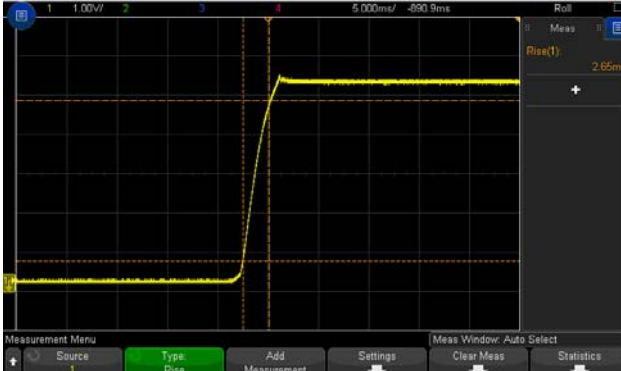


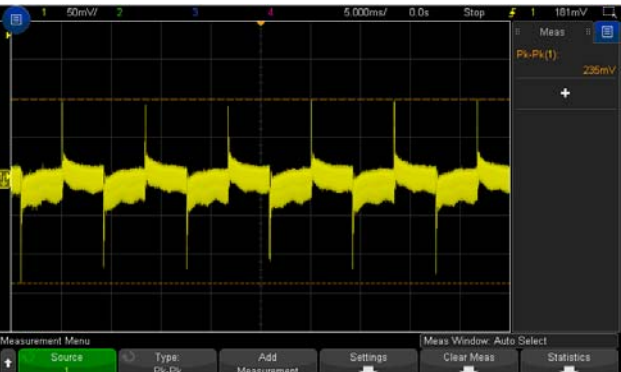

CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

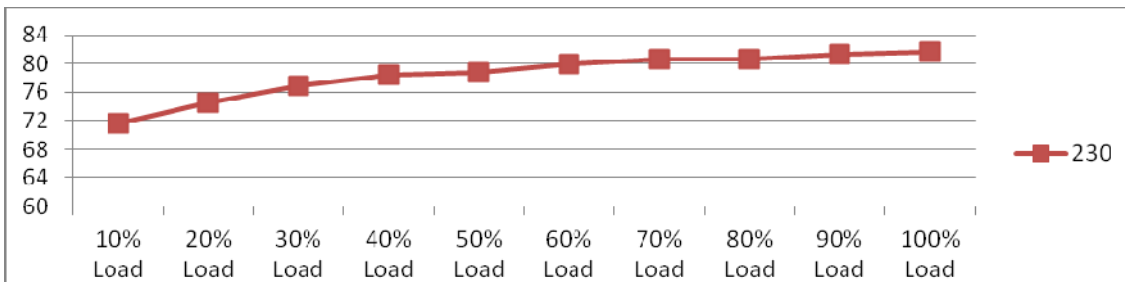


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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 8 | RISE TIME (Max) 50ms/ 230VAC 50ms/ 115VAC/ | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 2.43ms 115VAC/2.65 ms |
| INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  | | INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage  | |
| 9 | HOLD UP TIME (Typ.) 80ms/ 230VAC 15ms /115VAC | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 87ms 115VAC/ 15.2 ms |
| 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: 1000 mVp-p | I/P: 230VAC O/P: (1)FULL /MIN LOAD 50%DUTY / 120HZ (2)FULL /MIN LOAD 50%DUTY / 1KHZ Ta:25°C | 221mVp-p 215mVp-p |
| FULL /MIN LOAD 50%DUTY / 120HZ  | | FULL /MIN LOAD 50%DUTY / 1KHZ  | |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1 | INPUT VOLTAGE RANGE | 88VAC~264VAC 125VDC~373VDC | I/P:TESTING O/P:FULL LOAD Ta:25°C | 70VAC~264VAC 125VDC~373VDC |
| | | | I/P: LOW-LINE-3V=85 V HIGH-LINE+15%=300 V 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:88 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C | TEST: OK |
| 3 | INPUT CURRENT (Typ.) | 230V/0.55A 115V/0.8A | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I=0.33A/ 230VAC I=0.58A/ 115VAC |
| 4 | LEAKAGE CURRENT | < 2 mA / 240 VAC | I/P : 240 VAC O/P : Min LOAD Ta : 25°C | 1.1 mA |
| 5 | EFFICIENCY(Typ.) | 80.5% | I/P:230 VAC O/P:FULL LOAD Ta:25°C | 81.7% |

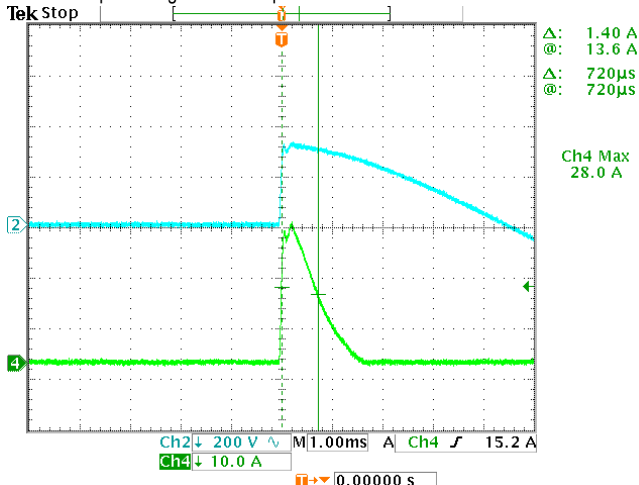
EFFICIENCY vs LOAD



| | | | | |
|---|----------------------|------------------------|-----------------------------------------------|--|
| 6 | INRUSH CURRENT(Typ.) | 230V/36A COLD START | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | |
|---|----------------------|------------------------|-----------------------------------------------|--|

INPUT=230VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current



PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-------------------------|----------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | OVER LOAD PROTECTION | 110 %~150% | I/P: 264VAC I/P: 230VAC I/P: 115VAC O/P: TESTING Ta:25°C | 135.1%/ 264VAC 137.1%/ 230VAC 129.4%/115VAC PROTECTION TYPE : Hiccup mode ,recovers automatically after fault condition is removed |
| 2 | OVER VOLTAGE PROTECTION | 5.75V~6.75V | I/P: 264VAC I/P: 230VAC I/P: 88VAC O/P: MIN LOAD Ta:25°C | 6.26V/ 264VAC 6.26V/ 230VAC 6.26V/ 88VAC PROTECTION TYPE : Hiccup mode ,recovers automatically after fault condition is removed |
| 3 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P: 264VAC O/P: FULL LOAD Ta:25°C | 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 | Q1 Rated : 6A/ 600 V | AC ON/OFF I/P: High-Line +3V =267V VDS: O/P: (1) Full Load (2) Output Short (3) Full load continue Ta:25°C | VDS: (1) 500V (2) 476V (3) 492V |
| 2 | O/P DIODE | D55 Rated : 10A/ 40 V | I/P: High-Line +3V =267 V AC ON/OFF O/P: (1) Full Load (2) Output Short (3) Full load continue Ta:25°C | (1) 35.4V (2) 31.0V (3) 35.0V |
| 3 | Input Capacitor Voltage | C5 Rated: : 82 μ / 400 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) 371V (2) 371V (3) 371V (4) 367V |
| 4 | Control IC Voltage Test | U1 Rated : 8.4 V~ 21 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) 17.5V (2) 12.5V (3) 17.7V (4) 15.1V (5) 12.5V |
| 5 | Clamp Diode | D1 Rated : 3A/ 600 V | AC ON/OFF I/P : High-Line +3V = 267 V O/P : (1) Dynamic Load 90%Duty/1KHz (2) Full load continue Ta : 25°C | (1) 468V (2) 464V |

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC/min I/P-FG:2 KVAC/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:1.68mA I/P-FG:0.74mA O/P-FG:0.73mA 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 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 | 40 A / 2min Ta: 25°C/70%RH | 7 mΩ |

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 | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL |
| 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 <input checked="" type="checkbox"/> LIGHT INDUSTRY AIR: 8KV / Contact: 4KV <input type="checkbox"/> INDUSTRY AIR: 8KV / Contact: 4KV <input type="checkbox"/> Din rail Model : AIR: 15KV / Contact: 8KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A |
| 5 | E.F.T | EN61000-4-4 <input checked="" type="checkbox"/> LIGHT INDUSTRY INPUT : 1KV <input type="checkbox"/> MEDICAL <input type="checkbox"/> INDUSTRY INPUT : 2KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A |
| 6 | SURGE | IEC61000-4-5 <input type="checkbox"/> LIGHT INDUSTRY L-N : 1KV L/N-PE : 2KV | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | TEMPERATURE RISE TEST | MODEL : RS-35-5 1. ROOM AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 27.1 °C 2. HIGH AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50.1 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 27.1 °C</th> <th>HIGH AMBIENT Ta= 50.1 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF1</td><td>47.6°C</td><td>70.0°C</td></tr> <tr><td>2</td><td>BD1</td><td>56.5°C</td><td>78.4°C</td></tr> <tr><td>3</td><td>C5</td><td>48.5°C</td><td>72.7°C</td></tr> <tr><td>4</td><td>Q1</td><td>59.3°C</td><td>86.0°C</td></tr> <tr><td>5</td><td>D1</td><td>68.7°C</td><td>95.3°C</td></tr> <tr><td>6</td><td>T1</td><td>78.4°C</td><td>101.4°C</td></tr> <tr><td>7</td><td>C10</td><td>58.6°C</td><td>85.0°C</td></tr> <tr><td>8</td><td>D55</td><td>75.6°C</td><td>100.0°C</td></tr> <tr><td>9</td><td>R4</td><td>81.9°C</td><td>105.7°C</td></tr> <tr><td>10</td><td>R8</td><td>52.8°C</td><td>81.0°C</td></tr> <tr><td>11</td><td>C57</td><td>63.2°C</td><td>86.3°C</td></tr> <tr><td>12</td><td>C58</td><td>59.4°C</td><td>82.5°C</td></tr> <tr><td>13</td><td>L51</td><td>53.5°C</td><td>77.2°C</td></tr> <tr><td>14</td><td>U1</td><td>53.8°C</td><td>79.4°C</td></tr> <tr><td>15</td><td>U3</td><td>58.3°C</td><td>80.2°C</td></tr> <tr><td>16</td><td>D2</td><td>60.2°C</td><td>84.7°C</td></tr> </tbody> </table> | NO | Position | ROOM AMBIENT Ta= 27.1 °C | HIGH AMBIENT Ta= 50.1 °C | 1 | LF1 | 47.6°C | 70.0°C | 2 | BD1 | 56.5°C | 78.4°C | 3 | C5 | 48.5°C | 72.7°C | 4 | Q1 | 59.3°C | 86.0°C | 5 | D1 | 68.7°C | 95.3°C | 6 | T1 | 78.4°C | 101.4°C | 7 | C10 | 58.6°C | 85.0°C | 8 | D55 | 75.6°C | 100.0°C | 9 | R4 | 81.9°C | 105.7°C | 10 | R8 | 52.8°C | 81.0°C | 11 | C57 | 63.2°C | 86.3°C | 12 | C58 | 59.4°C | 82.5°C | 13 | L51 | 53.5°C | 77.2°C | 14 | U1 | 53.8°C | 79.4°C | 15 | U3 | 58.3°C | 80.2°C | 16 | D2 | 60.2°C | 84.7°C |
| NO | Position | ROOM AMBIENT Ta= 27.1 °C | HIGH AMBIENT Ta= 50.1 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LF1 | 47.6°C | 70.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BD1 | 56.5°C | 78.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | C5 | 48.5°C | 72.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Q1 | 59.3°C | 86.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | D1 | 68.7°C | 95.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | T1 | 78.4°C | 101.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C10 | 58.6°C | 85.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | D55 | 75.6°C | 100.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | R4 | 81.9°C | 105.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | R8 | 52.8°C | 81.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | C57 | 63.2°C | 86.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | C58 | 59.4°C | 82.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | L51 | 53.5°C | 77.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | U1 | 53.8°C | 79.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | U3 | 58.3°C | 80.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | D2 | 60.2°C | 84.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OVER LOAD BURN-IN TEST | NO DAMAGE 1 HOUR (MIN) | I/P : 230 VAC O/P : 136% LOAD Ta : 25°C | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P : 264VAC/88VAC 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 CONTROL50°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 | ± 0.0017%/°C (0~50°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 : 10 CYCLE 5. Input/Output condition : STATIC | | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | THERMAL SHOCK TEST | 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 | | TEST : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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|----|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 8 | VIBRATION TEST | 1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 10min/sweep cycle (4) Acceleration : 5G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C | TEST : OK |
| 9 | CAPACITOR LIFE CYCLE | SUPPOSE C57 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) 111236.1 HRS (2) 19528.1 HRS (3) 48660 HRS (4) 102751.5 HRS |
| 10 | MTBF | Conducted by Parts Stress Analysis Prediction 249K 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 | LIUTT | | WANGDZ |

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