



Test Report : NPF-40D-36

40W Single Output Switching Power Supply

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

■ RELIABILITY TEST

ENVIRONMENT TEST

■ DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|--------------------------|---|---|--|---------|
| 1 | RIPPLE & NOISE | V1 : 200 mVp-p (Max) | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | V1 : 38 mVp-p (Max) | PASS |
| 2 | CONSTANT CURRENT REGION | V1: 21.6V ~ 36 V | I/P : 230VAC O/P:LED MODE Ta:25°C | OP= 21.6V / 1.143A OP= 35V / 1.144A | PASS |
| 3 | OUTPUT VOLTAGE TOLERANCE | V1 : -2%~2% (Max) | I/P : 90 VAC / 305 VAC O/P : FULL/ NO LOAD Ta : 25°C | V1 : -0.13 %~ 0.04 % | PASS |
| 4 | LINE REGULATION | V1 : -0.5%~0.5% (Max) | I/P : 100 VAC ~ 305 VAC O/P : FULL LOAD Ta : 25°C | V1 : 0 %~ 0 % | PASS |
| 5 | LOAD REGULATION | V1 : -0.5%~0.5% (Max) | I/P : 230 VAC O/P : FULL~NO LOAD Ta : 25°C | V1 : -0.04 %~ 0.04 % | PASS |
| 6 | SET UP TIME | 230VAC : 500 ms (Max) 115VAC : 500 ms(Max) | I/P : 230 VAC I/P : 115 VAC O/P : 95% LOAD Ta : 25°C | 230VAC/ 421 ms 115VAC/ 438 ms | PASS |
| 7 | RISE TIME | 230VAC : 80 ms (Max) 115VAC : 80 ms (Max) | I/P : 230 VAC I/P : 115 VAC O/P : 95% LOAD Ta : 25°C | 230VAC/ 57 ms 115VAC/ 57 ms | PASS |
| 8 | HOLD UP TIME | 230VAC : 16 ms (TYP) 115VAC : 16 ms (TYP) | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 20 ms 115VAC/ 20 ms | PASS |
| 9 | OVER/UNDERSHOOT TEST | < ±5% | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | TEST : < 5 % | PASS |
| 10 | DYNAMIC LOAD | V1 : 3600 mVp-p | I/P : 230 VAC (1).O/P : FULL /NO LOAD 90%DUTY/ 1KHZ (2).O/P : FULL /NO LOAD 50%DUTY/ 120HZ Ta : 25°C | (1) 283 mVp-p (2) 724 mVp-p | PASS |

| | | | | | | | | | | | | | | | |
|---------------------------------------|------------------|---|---|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
| 11 | DIMMER TEST | SPEC: | | | | | | | | | | | | | |
| | | *Output constant current level can be adjusted through output cable by connecting a resistance or 0 ~ 10Vdc or 10V PWM signal between DIM + and DIM - . | | | | | | | | | | | | | |
| | | *Reference resistance value for output current adjustment (Typical) | | | | | | | | | | | | | |
| | | Resistance value | Single driver | Short | 10 KΩ | 20 KΩ | 30 KΩ | 40 KΩ | 50 KΩ | 60 KΩ | 70 KΩ | 80 KΩ | 90 KΩ | 100 KΩ | OPEN |
| | | | Multiple drives (N=driver quantity for synchronized dimming operation) | Short | 10 KΩ /N | 20 KΩ /N | 30 KΩ /N | 40 KΩ /N | 50 KΩ /N | 60 KΩ /N | 70 KΩ /N | 80 KΩ /N | 90 KΩ /N | 100 KΩ /N | |
| | | Percentage of rated current | | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% |
| | | *0 ~ 10V dimming function for output current adjustment (Typical) | | | | | | | | | | | | | |
| | | Dimming value | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | OPEN | |
| | | Percentage of rated current | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% | |
| | | *10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz~3KHz | | | | | | | | | | | | | |
| | | Duty value | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN | |
| Percentage of rated current | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 95%~108% | | | |
| TEST RESULT: I/P : 230 VAC; Ta : 25°C | | | | | | | | | | | | | | | |
| 1 | Resistance value | SHORT | 10K | 20K | 30K | 40K | 50K | 60K | 70K | 80K | 90K | 100K | OPEN | | |
| | Output current | 0A | 0.097A | 0.215A | 0.332A | 0.448A | 0.564A | 0.680A | 0.795A | 0.910A | 1.025A | 1.136A | 1.162A | | |
| | % | 0% | 8.66% | 19.20% | 29.64% | 40.00% | 50.36% | 60.71% | 70.98% | 81.25% | 91.52% | 101.43% | 103.75% | | |
| 2 | Dimming value | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | OPEN | | |
| | Output current | 0A | 0.099A | 0.216A | 0.329A | 0.446A | 0.563A | 0.683A | 0.799A | 0.913A | 1.030A | 1.145A | 1.162A | | |
| | % | 0% | 8.84% | 19.29% | 29.38% | 39.82% | 50.27% | 60.98% | 71.34% | 81.52% | 91.96% | 102.23% | 103.75% | | |
| 3 | Duty value | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | OPEN | | |
| | Output current | 0A | 0.097A | 0.208A | 0.319A | 0.430A | 0.541A | 0.652A | 0.762A | 0.874A | 0.984A | 1.083A | 1.163A | | |
| | % | 0% | 8.66% | 18.57% | 28.48% | 38.39% | 48.30% | 58.21% | 68.04% | 78.04% | 87.86% | 96.70% | 103.84% | | |

PASS

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|---------------------------|---|--|---|---------|
| 1 | INPUT VOLTAGE RANGE | 90 VAC~305 VAC | I/P : TESTING O/P : FULL LOAD Ta : 25°C | 87 V~305 V | PASS |
| | | | I/P : (1)LOW-LINE-3V=87 V HIGH-LINE+10V=315 V O/P : FULL/MIN LOAD ON : 30 Sec OFF : 30 Sec 10MIN (2)230VAC ON : 0.5 Sec OFF : 0.5 Sec 20MIN (3)230VAC ON : 3Sec OFF : 3Sec 12HOURS (POWER ON/OFF NO DAMAGE) | TEST : (1) OK (2) OK (3) OK | |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE OSC | I/P : 90 VAC ~ 305 VAC O/P : FULL ~NO LOAD Ta : 25°C | TEST : OK | PASS |
| 3 | POWER FACTOR | 115V/ 0.97 (TYP) 230V/ 0.95 (TYP) 277V/ 0.92 (TYP) | I/P : 115 VAC I/P : 230 VAC I/P : 277 VAC O/P : FULL LOAD Ta : 25°C | PF= 0.996 / 115 VAC PF= 0.977 / 230 VAC PF= 0.944 / 277 VAC | PASS |
| 4 | EFFICIENCY | 90% (TYP) | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | 90.11% | PASS |
| 5 | INPUT CURRENT | 115V/ 0.6 A (TYP) 230V/ 0.3 A (TYP) 277V/ 0.25 A (TYP) | I/P : 115 VAC I/P : 230 VAC I/P : 277 VAC O/P : FULL LOAD Ta : 25°C | I = 0.392 A / 115 VAC I = 0.199 A / 230 VAC I = 0.171 A / 277 VAC | PASS |
| 6 | INRUSH CURRENT | 230V/ 50 A (TYP) Twidth =270 us measured at 50% Ipeak COLD START | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | I = 43.2 A Twidth = 212 us | PASS |
| 7 | LEAKAGE CURRENT | < 0.25 mA / 277 VAC | I/P : 305 VAC O/P : NO LOAD Ta : 25°C | L-CASE : 0.003 mA N-CASE : 0.003 mA | PASS |
| 8 | NO LOAD CONSUMPTION | < 0.5 W | I/P : 230VAC O/P : NO LOAD Ta : 25°C | 0.17 W | PASS |
| 9 | TOTAL HARMONIC DISTORTION | Total harmonic distortion will be lower than 20% when output loading is 60% or higher at 230V/115VAC Total harmonic distortion will be lower than 20% when output loading is 75% or higher at 277VAC | I/P : 115 VAC I/P : 230 VAC O/P : 60% LOAD I/P : 277 VAC O/P : 75%LOAD Ta : 25°C | THD : 6.58% /115VAC THD : 15.22% /230VAC THD : 15.37% /277VAC | PASS |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|-----------------------------|--|---|--|---------|
| 1 | OVER LOAD PROTECTION | 95 % ~ 108 % | I/P : 100 VAC I/P : 230 VAC I/P : 305 VAC O/P : TESTING Ta : 25°C | 102.2 %/ 100 VAC 102.2 %/ 230 VAC 102.2 %/ 305 VAC Constant current limiting, recovers automatically after fault condition is removed | PASS |
| 2 | OVER VOLTAGE PROTECTION | CH1 : 41 V ~ 46 V | I/P : 90 VAC I/P : 230 VAC I/P : 305 VAC O/P : NO LOAD Ta : 25°C | 44.0 V/ 90 VAC 44.0 V/ 230 VAC 44.1 V/ 305 VAC Shut down o/p voltage, re-power on to recover | PASS |
| 3 | OVER TEMPERATURE PROTECTION | SPEC : O.T.P. NO DAMAGE | I/P : 230 VAC O/P : FULL LOAD | O.T.P. Active Shut down o/p voltage, re-power on to recover | PASS |
| 4 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P : 305 VAC O/P : FULL LOAD Ta : 25°C | NO DAMAGE Hiccup mode, recovers automatically after fault condition is removed | PASS |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|---|--------------------------|---|--|---------|
| 1 | Power Transistor (D to S) or (C to E) Peak Voltage | Q2 Rated 800 V 9A | 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) 624 V (2) 480 V (3) 612 V | PASS |
| 2 | Diode Peak Voltage | D100 Rated 170 V 20 A | 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) 153 V (2) 116 V (3) 148 V | PASS |
| 3 | Input Capacitor Voltage | C5 Rated 33uF / 450 V | I/P : High-Line +3V = 308 V O/P : (1) FULL LOAD Turn on /Off (2) NO LOAD Turn on /Off (3) FULL LOAD /Min load Change Ta : 25°C | (1) 444 V (2) 444 V (3) 438 V | PASS |
| 4 | Control IC Voltage Test | U1 Rated 28V | I/P : High-Line +3V = 308 V O/P : (1) FULL LOAD Turn on /Off (2) NO LOAD Turn on /Off (3) FULL LOAD /Min load Change Ta : 25°C | (1) 17.1 V (2) 16.9 V (3) 17.1 V | PASS |
| 5 | PFC Transistor (D to S) or (C to E) Peak Voltage | Q1 Rated 600 V 10A | 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) 460 V (2) 458 V (3) 452 V | PASS |

■ SAFETY & E.M.C. TEST

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|-------------------------|---------------------------------------|---------------------------------|---------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P : 3.75 KVAC/min | I/P-O/P : 4.2 KVAC/min Ta : 25°C | I/P-O/P : 2.641 mA NO DAMAGE | PASS |
| 2 | ISOLATION RESISTANCE | I/P-O/P : 500VDC>100MΩ | I/P-O/P : 500 VDC Ta : 25°C/70% RH | I/P-O/P : >9999 MΩ NO DAMAGE | PASS |

E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|---|--|--|-----------------------------|---------|
| 1 | HARMONIC | EN61000-3-2 CLASS C | I/P : 115VAC/230VAC/50HZ O/P : 60%/FULL LOAD I/P : 277VAC/50HZ O/P : 75%/FULL LOAD Ta:25°C | OK | PASS |
| 2 | CONDUCTION | EN55015 | I/P : 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | OK Test by certified Lab | PASS |
| 3 | RADIATION | EN55015 | I/P : 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | OK Test by certified Lab | PASS |
| 4 | E.S.D | EN61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV | I/P : 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | CRITERIA A | PASS |
| 5 | E.F.T | EN61000-4-4 LIGHT INDUSTRY INPUT : 1KV | I/P : 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | CRITERIA A | PASS |
| 6 | SURGE | IEC61000-4-5 INDUSTRY L-N :2KV | I/P : 230 VAC/50HZ O/P:FULL LOAD Ta:25°C | CRITERIA A | PASS |
| 7 | Test by certified Lab & Test Report Prepare | | | | |

■ RELIABILITY TEST

ENVIRONMENT TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|---|--|--|------------------|---------|-----------------------------|-----------------------------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|-----|--------|--------|---|------|--------|--------|---|------|--------|--------|----|----|--------|--------|----|----|--------|--------|----|------|--------|--------|----|------|--------|--------|----|----|--------|--------|--|--|
| 1 | TEMPERATURE RISE TEST | MODEL : NPF-40D-24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=28.4 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta=49.5 °C | | | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 28.4 °C</th> <th>HIGH AMBIENT Ta= 49.5 °C</th> </tr> </thead> <tbody> <tr><td>1</td><td>L3</td><td>46.3°C</td><td>65.1°C</td></tr> <tr><td>2</td><td>Q1</td><td>53.8°C</td><td>72.7°C</td></tr> <tr><td>3</td><td>Q2</td><td>55.3°C</td><td>74.2°C</td></tr> <tr><td>4</td><td>D6</td><td>52.0°C</td><td>70.8°C</td></tr> <tr><td>5</td><td>C5</td><td>50.7°C</td><td>69.1°C</td></tr> <tr><td>6</td><td>T1</td><td>55.4°C</td><td>74.0°C</td></tr> <tr><td>7</td><td>C45</td><td>50.1°C</td><td>68.7°C</td></tr> <tr><td>8</td><td>D100</td><td>52.0°C</td><td>71.1°C</td></tr> <tr><td>9</td><td>C105</td><td>50.8°C</td><td>69.6°C</td></tr> <tr><td>10</td><td>R5</td><td>52.8°C</td><td>71.6°C</td></tr> <tr><td>11</td><td>U1</td><td>50.8°C</td><td>69.8°C</td></tr> <tr><td>12</td><td>U100</td><td>47.4°C</td><td>66.2°C</td></tr> <tr><td>13</td><td>RTH2</td><td>49.1°C</td><td>67.7°C</td></tr> <tr><td>14</td><td>Tc</td><td>46.8°C</td><td>66.0°C</td></tr> </tbody> </table> | NO | Position | | ROOM AMBIENT Ta= 28.4 °C | HIGH AMBIENT Ta= 49.5 °C | 1 | L3 | 46.3°C | 65.1°C | 2 | Q1 | 53.8°C | 72.7°C | 3 | Q2 | 55.3°C | 74.2°C | 4 | D6 | 52.0°C | 70.8°C | 5 | C5 | 50.7°C | 69.1°C | 6 | T1 | 55.4°C | 74.0°C | 7 | C45 | 50.1°C | 68.7°C | 8 | D100 | 52.0°C | 71.1°C | 9 | C105 | 50.8°C | 69.6°C | 10 | R5 | 52.8°C | 71.6°C | 11 | U1 | 50.8°C | 69.8°C | 12 | U100 | 47.4°C | 66.2°C | 13 | RTH2 | 49.1°C | 67.7°C | 14 | Tc | 46.8°C | 66.0°C | | |
| NO | Position | ROOM AMBIENT Ta= 28.4 °C | HIGH AMBIENT Ta= 49.5 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | L3 | 46.3°C | 65.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Q1 | 53.8°C | 72.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Q2 | 55.3°C | 74.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | D6 | 52.0°C | 70.8°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | C5 | 50.7°C | 69.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | T1 | 55.4°C | 74.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C45 | 50.1°C | 68.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | D100 | 52.0°C | 71.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | C105 | 50.8°C | 69.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | R5 | 52.8°C | 71.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | U1 | 50.8°C | 69.8°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | U100 | 47.4°C | 66.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | RTH2 | 49.1°C | 67.7°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Tc | 46.8°C | 66.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P : 305VAC/100VAC O/P : FULL LOAD Ta= -45°C/-30°C | TEST : OK | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST | AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C NO DAMAGE | I/P : 315 VAC O/P : FULL LOAD Ta= 50 °C HUMIDITY= 95% R.H | TEST : OK | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | TEMPERATURE COEFFICIENT | ±0.03 %(0~50°C) | I/P : 230 VAC O/P : FULL LOAD | ±0.004 %(0~50°C) | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | STORAGE TEMPERATURE TEST | 1. Thermal shock Temperature : -45°C ~ +85°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 | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | THERMAL SHOCK TEST | 1. Thermal shock Temperature : -45°C ~ +55°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 AC ON/OFF TEST turn on 58sec ; turn off 2sec | | OK | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | | | |
|----|-----------------------------|--|---|------|
| 7 | VIBRATION TEST | 1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 5G (5) Test Time : 90min in each axis (X.Y.Z) (6) Ta : 25°C | TEST : OK | PASS |
| 8 | CAPACITOR LIFE CYCLE | NPF-40D-24 : SUPPOSE C105 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) 459368 HRS (2) 95281 HRS (3) 121390 HRS (4) 129189 HRS | PASS |
| 9 | MTBF | Conducted by Parts Stress Analysis Prediction 3084.3K hrs min. Telcordia SR-332 (Bellcore); 288.2K hrs min. MIL-HDBK-217F (25°C) | | PASS |
| 10 | DMTBF/Accelerated Life Test | Demonstration Mean Time Between Failure(Expected Life) : 50000 hours @ Tcase 70°C | | PASS |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|-----------------|--------|----------|
| PASS | ZHANGZJ/ ZHUOKB | SKY | LIUWY |

2009/08/04 A50-G058