



Test Report: GSM120B24

120W AC-DC Reliable Green Medical Adaptor

■ 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 | VERDICT |
|----|--------------------------|---|---|--|---------|
| 1 | RIPPLE & NOISE | V1 : 180 mVp-p (Max) | I/P : 230VAC O/P : FULL LOAD Ta : 25°C | V1 : 14.6 mVp-p (Max) | P |
| 2 | OUTPUT VOLTAGE TOLERANCE | V1 : -3 %~ +3 % (Max) | I/P : 80 VAC / 264 VAC O/P : FULL/ MIN LOAD Ta : 25°C | V1 : -0.416 %~ 0.415 % | P |
| 3 | LINE REGULATION | V1 : -1 %~ +1 % (Max) | I/P : 100 VAC ~ 264 VAC O/P : FULL LOAD Ta : 25°C | V1 : -0.025 %~ 0.025 % | P |
| 4 | LOAD REGULATION | V1 : -3 %~ +3 % (Max) | I/P : 230 VAC O/P : FULL ~MIN LOAD Ta : 25°C | V1 : -0.416 %~ 0.415 % | P |
| 5 | SET UP TIME | 230VAC : 1500 ms (Max) 115VAC : 2000 ms(Max) | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 462.778 ms 115VAC/ 509.329 ms | P |
| 6 | RISE TIME | 230VAC : 30 ms (Max) 115VAC : 30 ms (Max) | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 20.217 ms 115VAC/ 20.671 ms | P |
| 7 | HOLD UP TIME | 230VAC : 40 ms (TYP) 115VAC : 24 ms (TYP) | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/ 42.761 ms 115VAC/ 26.151 ms | P |
| 8 | OVER/UNDERSHOOT TEST | < ±5% | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | TEST : <5 % | P |
| 9 | DYNAMIC LOAD | V1 : 2400 mVp-p | I/P : 230 VAC (1).O/P : FULL /Min LOAD 90%DUTY/ 1KHZ (2).O/P : FULL /Min LOAD 90%DUTY/ 3KHZ (3).O/P : FULL /Min LOAD 90%DUTY/ 5KHZ (4).O/P : FULL /Min LOAD 50%DUTY/ 120HZ Ta : 25°C | (1) 740 mVp-p (2) 780 mVp-p (3) 788 mVp-p (4) 924 mVp-p | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|-----------------------|--|--|---|---------|
| 1 | INPUT VOLTAGE RANGE | 80VAC~264 VAC 113VDC~370VDC | I/P : TESTING O/P : FULL LOAD Ta : 25°C I/P : LOW-LINE-3V= 77 V HIGH-LINE+15%=300 V O/P : FULL/MIN LOAD ON : 30 Sec . OFF : 30 Sec 10MIN (AC POWER ON/OFF NO DAMAGE) | 62.718 V~264V 110VDC~370VDC TEST : OK | P |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE OSC | I/P : 80 VAC ~ 264 VAC O/P : FULL-MIN LOAD Ta : 25°C | TEST : OK | P |
| 3 | POWER FACTOR | 0.93/230 VAC(TYP) 0.96/ 115 VAC(TYP) | I/P: 230 VAC I/P: 115 VAC O/P:FULL LOAD Ta:25°C | PF= 0.940 230VAC PF= 0.987 115VAC | P |
| 4 | EFFICIENCY | 90 % (TYP) | I/P : 230 VAC O/P : FULL LOAD Ta : 25°C | 91.84 % | P |
| 5 | INPUT CURRENT | 230V/ 0.7 A (TYP) 115V/ 1.4 A (TYP) | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I = 0.603 A/ 230 VAC I = 1.168 A/ 115 VAC | P |
| 6 | INRUSH CURRENT | 230V/ 70 A (TYP) 115V 35 A(TYP) COLD START | I/P : 230 VAC I/P: 115VAC O/P : FULL LOAD Ta : 25°C | I = 43.843 A/ 230 VAC I= 27.638 A/115VAC | P |
| 7 | LEAKAGE CURRENT | < 100 uA / 264VAC For Touch | I/P : 264 VAC O/P : Min LOAD Ta : 25°C | L/N-V+: 73.4 μA L/N-V-: 73.1 μA | P |
| 8 | NO LOAD CONSUMPTION | < 0.15 W | I/P : 240VAC O/P : NO LOAD Ta : 25°C | < 0.0924 W | P |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|-----------------------------|--|---|--|---------|
| 1 | OVER LOAD PROTECTION | 105 % ~160 % | I/P : 230 VAC I/P : 115 VAC O/P : TESTING Ta : 25°C | 133.3 %/ 230 VAC 127.2 %/ 115 VAC Hiccup Mode | P |
| 2 | OVER VOLTAGE PROTECTION | CH1 : 25.2 V ~32.4V | I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C | 28.78 V/ 230 VAC 28.80 V/ 115 VAC Shut down Re- power ON | P |
| 3 | OVER TEMPERATURE PROTECTION | NO DAMAGE Shut down o/p voltage, re-power on to recover | I/P : 230 VAC O/P : FULL LOAD | O.T.P. Active Shut down o/p voltage, re-power on to recover | P |



120W AC-DC Reliable Green Medical Adaptor

GSM120B series

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| 4 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P : 264 VAC O/P : FULL LOAD Ta : 25°C | NO DAMAGE Hiccup Mode | P |
|---|------------------|--|---|--------------------------|---|

CONTROL FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|---------------------|-----------------|--|------------------------------|---------|
| 1 | ERP STEP2 COMPLIANT | LEVEL V ≥89% | I/P: 230 VAC/115VAC O/P:100/75/50/25/% Ta:25°C | 230V 91.16 % 115V 90.22 % | P |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|--|------------------------------|--|---|---------|
| 1 | Power Transistor (D to S) or (C to E) Peak Voltage | Q32 Rated : 700 V 11 A | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C | (1) 568 V/A (2) 476 V/A (3) 560 V/A | P |
| 2 | Diode Peak Voltage | Q102 Rated : 150 V 104 A | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2)Output Short (3)Full load continue Ta : 25°C | (1) 133 V (2) 117 V (3) 131 V | P |
| 3 | Input Capacitor Voltage | C 5 Rated : 120u /420V/105°C | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C | (1) 398 V (2) 388 V (3) 402 V | P |
| 4 | Control IC Voltage Test | U 1 Rated : 28 V | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on /Off (2) Min load Turn on /Off (3)Full Load /Min load Change Ta : 25°C | (1) 18.5 V (2) 17.8 V (3) 18.7 V | P |
| 5 | CLAMP DIODE | D 30 Rated : 800 V 3 A | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C | (1) 524 V (2) 420 V (3) 520 V | P |
| 6 | Power Transistor (D to S) or (C to E) Peak Voltage | Q31 Rated : 600V | I/P : High-Line +3V = 267 V O/P : (1)Full Load Turn on (2) Output Short (3)Full load continue Ta : 25°C | (1) 422 V/A (2) 416 V/A (3) 416 V/A | P |

■ SAFETY & E.M.C. TEST

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|------------------------|---------------------------------------|---------------------------------|---------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P : 4 KVAC/min | I/P-O/P : 4.2KVAC/min Ta : 25°C | I/P-O/P : 2.039 mA NO DAMAGE | P |
| 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 | P |

E.M.C TEST

| c | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | VERDICT |
|---|---|---------------------------------------|--|-------------------------------|---------|
| 1 | HARMONIC | EN61000-3-2 CLASS A | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | PASS | P |
| 2 | CONDUCTION | EN55011 CLASS B | I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C | PASS Test by certified Lab | P |
| 3 | RADIATION | EN55011 CLASS B | I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C | PASS Test by certified Lab | P |
| 4 | E.S.D | EN61000-4-2 AIR:15KV / Contact:8KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A | P |
| 5 | E.F.T | EN61000-4-4 INPUT: 2KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A | P |
| 6 | SURGE | EN61000-4-5 L-N :1KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A | P |
| 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 : GSM120B24-R7B 1. ROOM AMBIENT BURN-IN : 1HRS I/P : 230VAC O/P : FULL LOAD Ta=23.9°C 2. HIGH AMBIENT BURN-IN : 1HRS I/P : 230VAC O/P : FULL LOAD Ta=37.5°C | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta=23.9°C</th> <th>HIGH AMBIENT Ta=37.5°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF1</td><td>59.5°C</td><td>70.3°C</td></tr> <tr><td>2</td><td>LF2</td><td>59.4°C</td><td>70.5°C</td></tr> <tr><td>3</td><td>LF3</td><td>61.4°C</td><td>72.5°C</td></tr> <tr><td>4</td><td>C12</td><td>61.9°C</td><td>73.0°C</td></tr> <tr><td>5</td><td>D6</td><td>63.4°C</td><td>74.4°C</td></tr> <tr><td>6</td><td>L2</td><td>62.6°C</td><td>73.6°C</td></tr> <tr><td>7</td><td>C5</td><td>63.4°C</td><td>74.4°C</td></tr> <tr><td>8</td><td>C52</td><td>70.3°C</td><td>81.2°C</td></tr> <tr><td>9</td><td>RTH30</td><td>64.6°C</td><td>75.8°C</td></tr> <tr><td>10</td><td>D30</td><td>72.5°C</td><td>83.5°C</td></tr> <tr><td>11</td><td>Q32</td><td>67.8°C</td><td>79.2°C</td></tr> <tr><td>12</td><td>D1</td><td>63.4°C</td><td>74.6°C</td></tr> <tr><td>13</td><td>Q31</td><td>63.4°C</td><td>74.9°C</td></tr> <tr><td>14</td><td>BD1</td><td>62.8°C</td><td>73.9°C</td></tr> <tr><td>15</td><td>T1</td><td>75.6°C</td><td>86.4°C</td></tr> <tr><td>16</td><td>C110</td><td>66.3°C</td><td>77.1°C</td></tr> <tr><td>17</td><td>Q102</td><td>72.8°C</td><td>84.1°C</td></tr> <tr><td>18</td><td>U2</td><td>65.2°C</td><td>76.4°C</td></tr> <tr><td>19</td><td>C1</td><td>58.7°C</td><td>69.6°C</td></tr> <tr><td>20</td><td>C2</td><td>59.1°C</td><td>70.2°C</td></tr> </tbody> </table> | NO | Position | ROOM AMBIENT Ta=23.9°C | HIGH AMBIENT Ta=37.5°C | 1 | LF1 | 59.5°C | 70.3°C | 2 | LF2 | 59.4°C | 70.5°C | 3 | LF3 | 61.4°C | 72.5°C | 4 | C12 | 61.9°C | 73.0°C | 5 | D6 | 63.4°C | 74.4°C | 6 | L2 | 62.6°C | 73.6°C | 7 | C5 | 63.4°C | 74.4°C | 8 | C52 | 70.3°C | 81.2°C | 9 | RTH30 | 64.6°C | 75.8°C | 10 | D30 | 72.5°C | 83.5°C | 11 | Q32 | 67.8°C | 79.2°C | 12 | D1 | 63.4°C | 74.6°C | 13 | Q31 | 63.4°C | 74.9°C | 14 | BD1 | 62.8°C | 73.9°C | 15 | T1 | 75.6°C | 86.4°C | 16 | C110 | 66.3°C | 77.1°C | 17 | Q102 | 72.8°C | 84.1°C | 18 | U2 | 65.2°C | 76.4°C | 19 | C1 | 58.7°C | 69.6°C | 20 | C2 | 59.1°C | 70.2°C | | P |
| NO | Position | ROOM AMBIENT Ta=23.9°C | HIGH AMBIENT Ta=37.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LF1 | 59.5°C | 70.3°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LF2 | 59.4°C | 70.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LF3 | 61.4°C | 72.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | C12 | 61.9°C | 73.0°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | D6 | 63.4°C | 74.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | L2 | 62.6°C | 73.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C5 | 63.4°C | 74.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | C52 | 70.3°C | 81.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | RTH30 | 64.6°C | 75.8°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | D30 | 72.5°C | 83.5°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Q32 | 67.8°C | 79.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | D1 | 63.4°C | 74.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Q31 | 63.4°C | 74.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | BD1 | 62.8°C | 73.9°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | T1 | 75.6°C | 86.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | C110 | 66.3°C | 77.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Q102 | 72.8°C | 84.1°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | U2 | 65.2°C | 76.4°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | C1 | 58.7°C | 69.6°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | C2 | 59.1°C | 70.2°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | OVER LOAD BURN-IN TEST | NO DAMAGE 1 HOUR (MIN) | I/P : 230 VAC O/P : 132% LOAD Ta : 25°C | TEST : OK | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P : 264VAC/100VAC O/P : 100 % LOAD Ta= -30 °C | TEST : OK | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST | AFTER 12 HOURS IN CHAMBER ON CONTROL °C NO DAMAGE | I/P : 272 VAC O/P : FULL LOAD Ta=40°C HUMIDITY= 95 %R.H | TEST : OK | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | TEMPERATURE COEFFICIENT | ±0.03%/°C (0-50°C) | I/P : 230 VAC O/P : FULL LOAD | ±0.003%/°C (0-50°C) | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | STORAGE TEMPERATURE TEST | 1. Thermal shock Temperature : -40°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 | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



120W AC-DC Reliable Green Medical Adaptor

GSM120B series

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|----|-----------------------------|---|---|---|
| 7 | THERMAL SHOCK TEST | 1. Thermal shock Temperature : -30°C~ +60°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 | P |
| 8 | VIBRATION TEST | 1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 2G (5) Test Time : 60min in each axis (X.Y.Z) (6) Ta : 25°C | TEST : OK | P |
| 9 | CAPACITOR LIFE CYCLE | SUPPOSE C110 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=40°C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta=40°C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta=40°C LIFE TIME | (1) 146746HRS (2) 63030HRS (3) 105917HRS (4) 159417HRS | P |
| 10 | MTBF | 2546.9K hrs min. Telcordia SR-332 (Bellcore) ; 372.0K hrs min. MIL-HDBK-217F (25°C) | | P |
| 11 | DMTBF/Accelerated Life Test | Demonstration Mean Time Between Failure (Expected Life): Above 50,000 hours @ TA 50°C | | P |

| SAMPLE | TEST RESULT | TESTER | APPROVAL |
|----------------|-------------|--------|----------|
| PRODUCT SAMPLE | PASS | Frank | WangDZ |

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