



# TEST REPORT: EPS-65S-48

## 65W 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

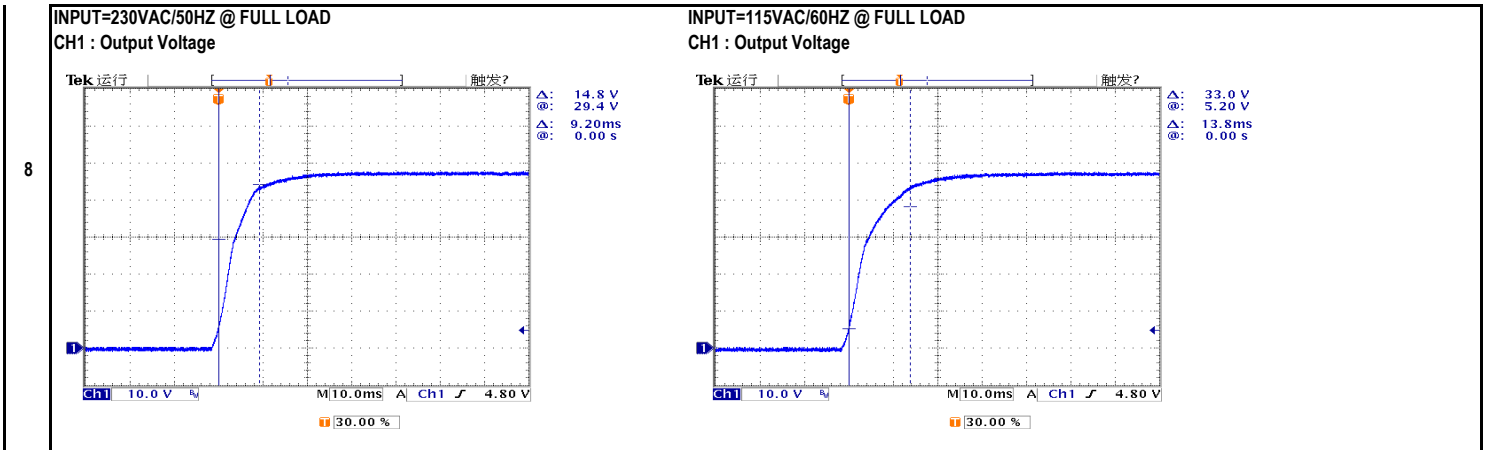
E.M.C. Test

### ■ RELIABILITY TEST

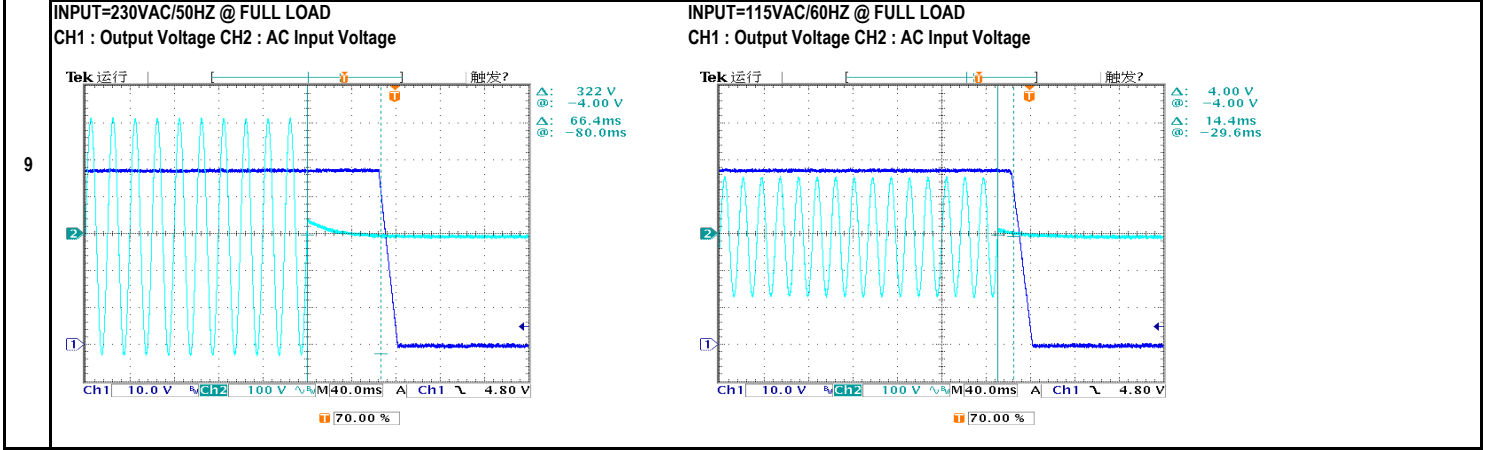
ENVIRONMENT TEST

DESIGN VERIFY TEST  
OUTPUT FUNCTION

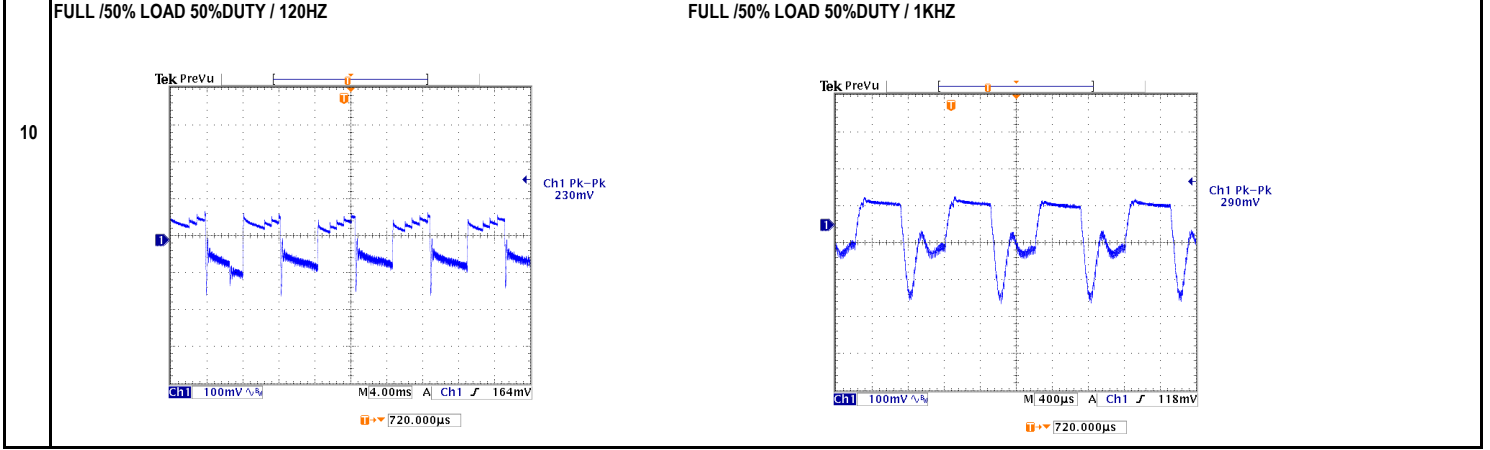
| NO | TEST ITEM  | SPECIFICATION                    | TEST CONDITION   | RESULT                          |
|----|--|----------------------------------|--|---------------------------------|
| 1  | OUTPUT VOLTAGE ADJUST RANGE  | CH1: 45.60V ~ 52.80V             | I/P : 230VAC<br>O/P: MIN LOAD<br>TA: 25°C                                    | CH1: 44.54V ~ 54.12V            |
| 2  | OUTPUT VOLTAGE TOLERANCE (Max)   | V1 : 1.0% ~ -1.0%                | I/P : 115VAC / 264VAC<br>O/P: FULL / MINLOAD<br>TA= 25°C                     | V1: 0.23% ~ -0.30%              |
| 3  | LINE REGULATION (MAX.)   | V1 : 0.5% ~ -0.5%                | I/P : 115VAC / 264VAC<br>O/P: FULL LOAD<br>TA: 25°C                          | V1: 0.05% ~ -0.01%              |
| 4  | LOAD REGULATION (MAX.)   | V1 : 1.0% ~ -1.0%                | I/P : 230VAC<br>O/P: MIN LOAD ~ FULL LOAD<br>TA: 25°C                        | V1: 0.23% ~ -0.30%              |
| 5  | OVER/UNDERSHOOT TEST   | < ±5%                            | I/P : 230VAC<br>O/P: FULL LOAD<br>TA: 25°C                                   | TEST< 3.361 %                   |
| 6  | RIPPLE & NOISE(Max)  | V1 : 300 mVp-p                   | I/P : 230VAC<br>O/P: FULL LOAD<br>TA: 25°C                                   | V1 : 58.8 mVp-p                 |
|    |  |                                  |  |                                 |
| 7  | SET UP TIME (MAX.)   | 230VAC : 500ms<br>115VAC : 500ms | I/P : 230VAC<br>I/P : 115VAC   | 230VAC : 188ms<br>115VAC : 68ms |
| 7  | INPUT=230VAC/50HZ @ FULL LOAD<br>CH1 : Output Voltage CH2 : AC Input Voltage |                                  | INPUT=115VAC/60HZ @ FULL LOAD<br>CH1 : Output Voltage CH2 : AC Input Voltage |                                 |
|    |  |                                  |  |                                 |



|                     |               |                |                 |
|---------------------|---------------|----------------|-----------------|
| HOLD UP TIME (TYP.) | 230VAC : 30ms | I/P : 230VAC   | 230VAC : 66.4ms |
|                     | 115VAC : 12ms | I/P : 115VAC   | 115VAC : 14.4ms |
|                     |               | O/P: FULL LOAD |                 |
|                     |               | TA: 25°C       |                 |



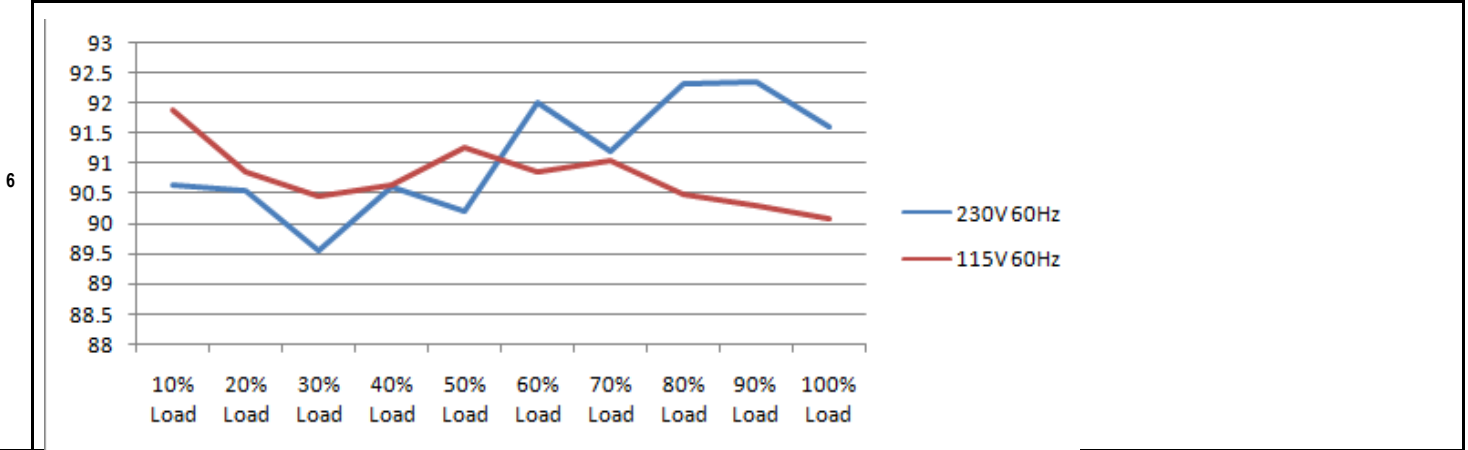
|              |                 |                                |                      |
|--------------|-----------------|--------------------------------|----------------------|
| DYNAMIC LOAD | V1 : 4800 mVp-p | I/P : 230VAC                   | (1). (2). unit:mVp-p |
|              |                 | O/P:                           | V1: 230.0mv 290.0mv  |
|              |                 | (1)Full/Min load 50%duty/120HZ |                      |
|              |                 | (2)Full/Min load 50%duty/1KHZ  |                      |
|              |                 | TA: 25°C                       |                      |





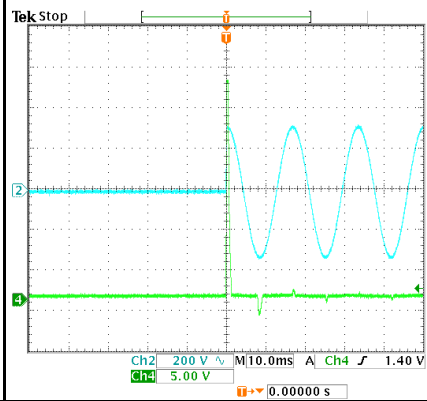
INPUT FUNCTION TEST

| NO | TEST ITEM                 | SPECIFICATION              | TEST CONDITION   | RESULT                                 |
|----|---------------------------|----------------------------|--|--|
| 1  | INPUT VOLTAGE RANGE       | 80VAC ~ 264VAC             | I/P : TESTING<br>O/P : FULL LOAD<br>Ta : 25°C  | 72.6VAC ~ 264VAC                       |
|    |                           |                            | I/P :<br>LOW-LINE = 77VAC<br>HIGH-LINE = 300VAC<br>O/P : FULL/MIN LOAD<br>ON:30 Sec ; OFF:30 Sec 10MIN<br>( POWER ON/OFF NO DAMAGE ) | TEST : OK                              |
| 2  | INPUT FREQUENCY RANGE     | 47HZ ~ 63HZ<br>NO DAMAGE   | I/P : 115VAC ~ 264VAC<br>O/P : FULL-MIN LOAD<br>Ta : 25°C  | TEST : OK                              |
| 3  | INPUT CURRENT (TYP.)      | 1 / 230VAC<br>1.5 / 115VAC | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C  | I= 0.579 / 230VAC<br>I= 0.988 / 115VAC |
| 4  | LEAKAGE CURRENT           | < 0.25mA                   | I/P: 264VAC<br>O/P: MIN LOAD<br>TA: 25°C   | L-FG: 0.084 mA<br>N-FG: 0.084 mA       |
| 5  | NO LOAD POWER CONSUMPTION | < 0.10W                    | I/P : 230VAC<br>O/P: MIN LOAD<br>TA : 25°C   | < 0.0829 W                             |
|    | EFFICIENCY (TYP.)         | 91.0%                      | I/P : 230VAC<br>O/P: FULL LOAD<br>TA : 25°C  | 91.67 %                                |

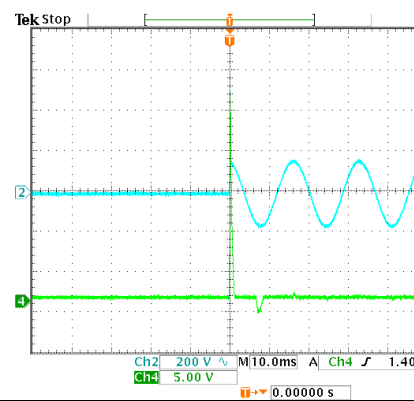


|   |                       |  |   |  |
|---|-----------------------|--|---|--|
| 7 | INRUSH CURRENT (TYP.) | 50A / 230VAC<br>30A / 115VAC<br>twidth= 0 us measured at 50% Ipeak<br>COLD START | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C | I= 27.10A / 230VAC<br>I= 26.10A / 115VAC |
|---|-----------------------|--|---|--|

INPUT=230VAC/50HZ @ FULL LOAD  
CH2 : Input current (1V=1A) CH4 : AC Input Voltage



INPUT=115VAC/50HZ @ FULL LOAD  
CH2 : Input current (1V=1A) CH4 : AC Input Voltage





**PROTECTION FUNCTION TEST**

| NO | TEST ITEM               | SPECIFICATION                          | TEST CONDITION  | RESULT   |
|----|-------------------------|--|---|--|
| 1  | OVER LOAD PROTECTION    | 115% ~ 150%                            | I/P: 264VAC<br>I/P: 230VAC<br>I/P: 115VAC<br>O/P: TESTING<br>TA: 25°C | 121.3% 264VAC<br>125.7% 230VAC<br>126.8% 115VAC<br>Hiccup Mode           |
| 2  | OVER VOLTAGE PROTECTION | 55.20V ~ 64.80V                        | I/P: 264VAC<br>I/P: 230VAC<br>I/P: 80VAC<br>O/P: MIN LOAD<br>TA: 25°C | 57.97V 264VAC<br>57.97V 230VAC<br>57.97V 80VAC<br>Shut down Re- power ON |
| 3  | SHORT PROTECTION        | SHORT EVERY OUTPUT<br>1 HOUR NO DAMAGE | I/P: 264VAC<br>I/P: 80VAC<br>O/P: FULL LOAD<br>Ta: 25°C               | NO DAMAGE<br>Hiccup Mode   |

**COMPONENT STRESS TEST**

| NO | TEST ITEM            | SPECIFICATION                         | TEST CONDITION  | RESULT  |
|----|----------------------|---------------------------------------|---|---|
| 1  | PWM Power Transistor | Q1 Rated : 600V 11.0A                 | I/P : 267VAC<br><br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25°C         | VIN: 267VAC<br>VDS:<br>(1). 568.00V<br>(2). 452.00V<br>(3). 568.00V           |
| 2  | Input Capacitor      | C5 Rated : 100uf 400V                 | I/P : 267VAC<br>O/P : (1)Full Load Turn on /Off<br>(2)Min load Turn on /Off<br>(3)Full Load /Min load Change<br>Ta : 25°C | (1). 360.00V<br>(2). 364.00V<br>(3). 364.00V                                  |
| 3  | Control IC           | U1 Rated : 28.0V (max)<br>-0.3V (min) | I/P : 267VAC<br>O/P : (1)Full Load<br>(2)Output Short<br>(3)O.L.P<br>(4)O.V.P<br>(5)Low Line No Load Vo(min)<br>Ta : 25°C | U1<br>(1). 21.60V<br>(2). 11.20V<br>(3). 20.80V<br>(4). 23.40V<br>(5). 20.20V |
| 4  | O/P Diode            | D100 Rated : 300V 20.0A               | I/P : 267VAC<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25°C                      | (1). 180.00V<br>(2). 168.00V<br>(3). 188.00V                                  |
| 5  | Clamp Diode          | D5 Rated : 800V 2.0A                  | I/P : 267VAC<br>O/P : (1)Full load continue<br>Ta : 25°C  | (1). 524.00V  |

**SAFETY & E.M.C. TEST**

**SAFETY TEST**

| NO | TEST ITEM            | SPECIFICATION            | TEST CONDITION                       | RESULT                       |
|----|----------------------|--------------------------|--------------------------------------|------------------------------|
| 1  | WITHSTAND VOLTAGE    | I/P-O/P : 3.000KVAC /min | I/P-O/P: 3.300KVAC /min<br>Ta : 25°C | I/P-O/P: 1.41mA<br>NO DAMAGE |
| 2  | ISOLATION RESISTANCE | I/P-O/P : 500VDC>100MΩ   | I/P-O/P: 500VDC<br>Ta : 25°C/70%RH   | I/P-O/P: 9999MΩ<br>NO DAMAGE |

**E.M.C. TEST**

| NO | TEST ITEM | SPECIFICATION          | TEST CONDITION                                     | RESULT |
|----|-----------|------------------------|--|--------|
| 1  | HARMONIC  | EN61000-3-2<br>CLASS A | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25°C | PASS   |



|   |            |   |   |                               |
|---|------------|---|---|-------------------------------|
| 2 | CONDUCTION | EN55022<br>CLASS B                              | I/P : 230VAC /50HZ<br>O/P : FULL LOAD / 50% LOAD<br>Ta : 25°C | PASS<br>Test by certified Lab |
| 3 | RADIATION  | EN55022<br>CLASS B                              | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25°C            | PASS<br>Test by certified Lab |
| 4 | E.S.D      | EN61000-4-2<br>INDUSTRY AIR: 8KV / Contact: 4KV | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25°C            | CRITERIA A                    |
| 5 | E.F.T      | EN61000-4-4<br>INDUSTRY INPUT: 2KV              | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25°C            | CRITERIA A                    |
| 6 | SURGE      | IEC61000-4-5<br>L/N:2KV                         | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25°C            | CRITERIA A                    |

RELIABILITY TEST

| NO  | TEST ITEM  | SPECIFICATION   | TEST CONDITION   | RESULT               |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
|-----|--|---|--|----------------------|----------|---------------------|-------------------------|---|-----|--------|--------|---|-----|--------|--------|---|-----|--------|---------|---|----|--------|---------|---|----|--------|--------|---|-----|--------|--------|---|----|--------|--------|---|------|---------|---------|---|------|---------|---------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|----|--------|--------|--|
| 1   | TEMPERATURE RISE TEST                                  | MODEL : EPS-65S-7.5<br>1. ROOM AMBIENT BURN-IN : 1.0hrs<br>IP: 230VAC      O/P: 100% LOAD      TA= 29.6°C<br>2. HIGH AMBIENT BURN-IN : 1.0hrs<br>IP: 230VAC      O/P: 100% LOAD      TA= 50.1°C   | <table border="1"> <thead> <tr> <th>NO.</th> <th>Position</th> <th>ROOM AMBIENT 29.6°C</th> <th>HIGH AMBIENT Ta: 50.1°C</th> </tr> </thead> <tbody> <tr><td>1</td><td>LF1</td><td>50.5°C</td><td>68.7°C</td></tr> <tr><td>2</td><td>LF2</td><td>53.7°C</td><td>72.7°C</td></tr> <tr><td>3</td><td>BD1</td><td>83.3°C</td><td>101.1°C</td></tr> <tr><td>4</td><td>Q1</td><td>88.8°C</td><td>106.6°C</td></tr> <tr><td>5</td><td>C5</td><td>64.0°C</td><td>82.1°C</td></tr> <tr><td>6</td><td>C40</td><td>78.5°C</td><td>96.1°C</td></tr> <tr><td>7</td><td>T1</td><td>80.9°C</td><td>98.2°C</td></tr> <tr><td>8</td><td>D100</td><td>100.9°C</td><td>117.6°C</td></tr> <tr><td>9</td><td>D101</td><td>101.8°C</td><td>117.2°C</td></tr> <tr><td>10</td><td>C105</td><td>75.1°C</td><td>94.3°C</td></tr> <tr><td>11</td><td>C106</td><td>71.9°C</td><td>91.0°C</td></tr> <tr><td>12</td><td>C107</td><td>56.3°C</td><td>74.5°C</td></tr> <tr><td>13</td><td>L101</td><td>62.0°C</td><td>79.6°C</td></tr> <tr><td>14</td><td>U1</td><td>69.9°C</td><td>87.2°C</td></tr> </tbody> </table> | NO.                  | Position | ROOM AMBIENT 29.6°C | HIGH AMBIENT Ta: 50.1°C | 1 | LF1 | 50.5°C | 68.7°C | 2 | LF2 | 53.7°C | 72.7°C | 3 | BD1 | 83.3°C | 101.1°C | 4 | Q1 | 88.8°C | 106.6°C | 5 | C5 | 64.0°C | 82.1°C | 6 | C40 | 78.5°C | 96.1°C | 7 | T1 | 80.9°C | 98.2°C | 8 | D100 | 100.9°C | 117.6°C | 9 | D101 | 101.8°C | 117.2°C | 10 | C105 | 75.1°C | 94.3°C | 11 | C106 | 71.9°C | 91.0°C | 12 | C107 | 56.3°C | 74.5°C | 13 | L101 | 62.0°C | 79.6°C | 14 | U1 | 69.9°C | 87.2°C |  |
| NO. | Position   | ROOM AMBIENT 29.6°C   | HIGH AMBIENT Ta: 50.1°C  |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 1   | LF1  | 50.5°C  | 68.7°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 2   | LF2  | 53.7°C  | 72.7°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 3   | BD1  | 83.3°C  | 101.1°C  |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 4   | Q1   | 88.8°C  | 106.6°C  |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 5   | C5   | 64.0°C  | 82.1°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 6   | C40  | 78.5°C  | 96.1°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 7   | T1   | 80.9°C  | 98.2°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 8   | D100   | 100.9°C   | 117.6°C  |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 9   | D101   | 101.8°C   | 117.2°C  |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 10  | C105   | 75.1°C  | 94.3°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 11  | C106   | 71.9°C  | 91.0°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 12  | C107   | 56.3°C  | 74.5°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 13  | L101   | 62.0°C  | 79.6°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 14  | U1   | 69.9°C  | 87.2°C   |                      |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 2   | OVER LOAD BURN-IN TEST                                 | NO DAMAGE<br>1 HOUR ( MIN )   | I/P : 230VAC<br>O/P : 129% LOAD<br>Ta : 25°C   | TEST : OK            |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 3   | LOW TEMPERATURE TURN ON TEST                           | NO DAMAGE<br>1 HOUR ( MIN )   | I/P : 264VAC / 115VAC<br>O/P : FULL LOAD<br>Ta : -30.0°C   | TEST : OK            |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 4   | HIGH HUMIDITY<br>HIGH TEMPERATURE<br>HIGH VOLTAGE TEST | AFTER 12 HOURS<br>IN CHAMBER ON<br>CONTROL 50°C<br>NO DAMAGE  | I/P : 272VAC<br>O/P : FULL LOAD<br>Ta : 50°C<br>HUMIDITY= 95.0% RH   | TEST : OK            |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 5   | TEMPERATURE COEFFICIENT                                | ±0.03% /°C(0~50°C)  | I/P : 230VAC<br>O/P : FULL LOAD  | ±0.0140% /°C(0~50°C) |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 6   | STORAGE TEMPERATURE TEST                               | 1. Thermal shock Temperature : -40°C ~ +85°C<br>2. Temperature change rate : 25°C / MIN<br>3. Dwell time low and high temperature : 30 MIN/EACH<br>4. Total test cycle : 5 CYCLE<br>5. Input/Output condition : STATIC  |  | TEST : OK            |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |
| 7   | THERMAL SHOCK TEST                                     | 1. Thermal shock Temperature : -35°C ~ +55°C<br>2. Temperature change rate : 25°C / MIN<br>3. Dwell time low and high temperature : 30 MIN/EACH<br>4. Total test cycle : 10 CYCLE<br>5. Input/Output condition :<br>230VAC Full Load AC ON/OFF test turn on 58sec ; turn off 2sec |  | TEST : OK            |          |                     |                         |   |     |        |        |   |     |        |        |   |     |        |         |   |    |        |         |   |    |        |        |   |     |        |        |   |    |        |        |   |      |         |         |   |      |         |         |    |      |        |        |    |      |        |        |    |      |        |        |    |      |        |        |    |    |        |        |  |



|    |                              |  |  |
|----|------------------------------|--|--|
| 8  | VIBRATION TEST               | 1 Carton & 1 Set<br>(1) Waveform : Sine Wave<br>(2) Frequency : 10~500Hz<br>(4) Acceleration : 2G<br>(5) Test Time : 60min in each axis (X.Y.Z)<br>(6) Ta : 25°C   | TEST : OK  |
| 9  | CAPACITOR LIFE CYCLE         | :SUPPOSE C106 IS THE MOST CRITICAL COMPONENT<br>(1) I/P : 230VAC O/P : FULL LOAD Ta= 25.0°C LIFE TIME<br>(2) I/P : 230VAC O/P : FULL LOAD Ta= 50.0°C LIFE TIME<br>(3) I/P : 230VAC O/P : 75% LOAD Ta= 50.0°C LIFE TIME<br>(4) I/P : 230VAC O/P : 50% LOAD Ta= 50.0°C LIFE TIME | (1). 158118 HRS<br>(2). 17782.8 HRS<br>(3). 44588.4 HRS<br>(4). 158118 HRS |
| 10 | MTBF                         | 3334.3K hrs min. Telcordia SR-332 (Bellcore) ; 706.6K hrs min. MIL-HDBK-217F (25°C)  |  |
| 11 | DMTBF /Accelerated Life test | Demonstration Mean Time Between Failure (Expected Life): Above 30000HRS @ TA 50°C  |  |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|--------|--------|----------|
| PASS        | FRANK  | GESG   | WANGDZ   |

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