



# TEST REPORT: EPP-400-15

## 400W Single Output with PFC Function

### ■ 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

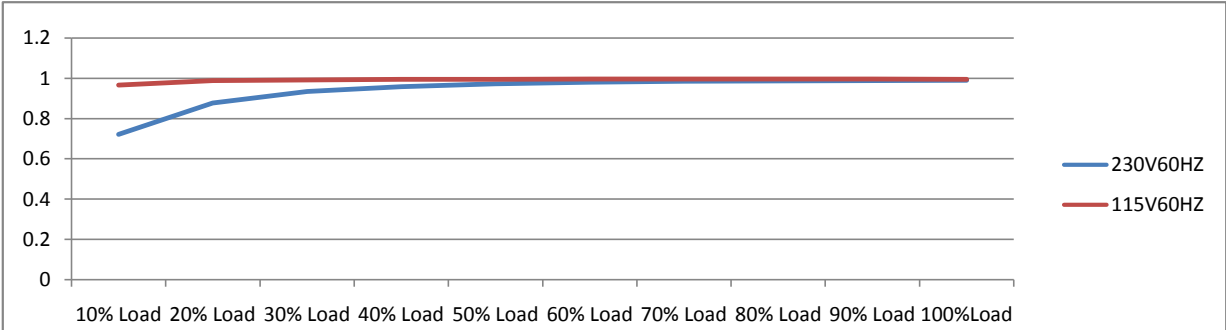
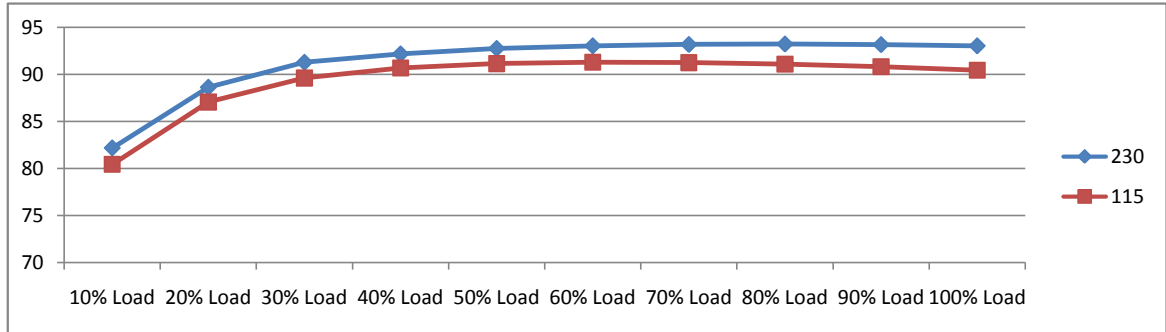
- ENVIRONMENT TEST

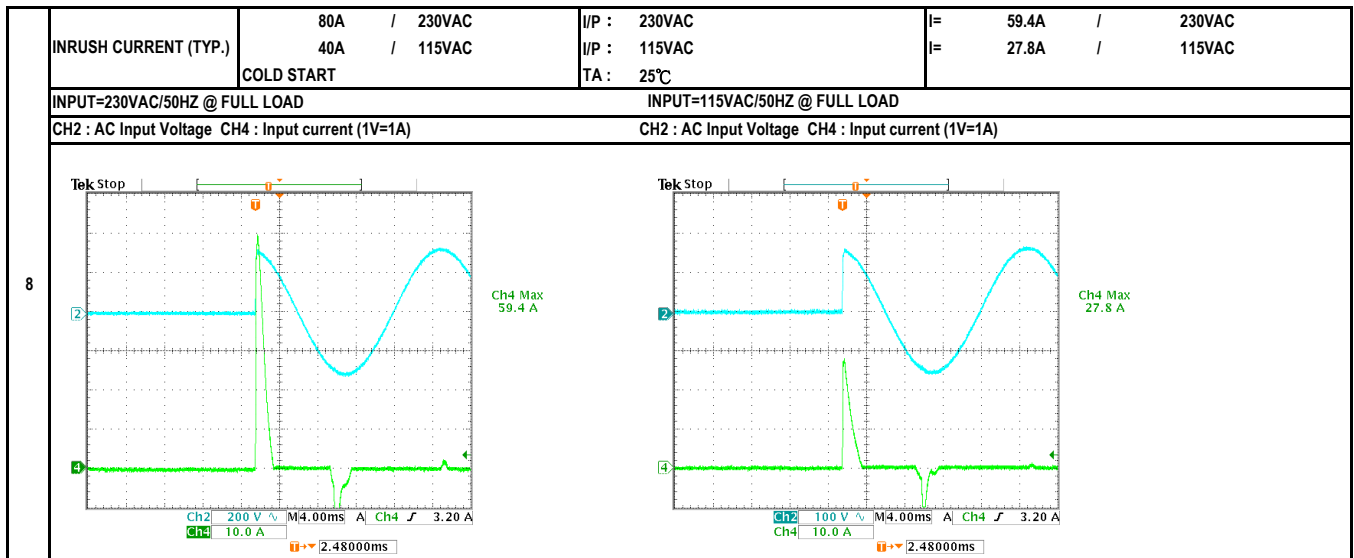
# DESIGN VERIFY TEST OUTPUT FUNCTION

| NO | TEST ITEM                         | SPECIFICATION                      | TEST CONDITION                                              | RESULT                                                                       |
|----|-----------------------------------|------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|
| 1  | OUTPUT VOLTAGE<br>ADJUST RANGE    | CH1: 14.30V ~ 15.80V               | I/P : 230VAC<br>O/P: MIN LOAD<br>TA : 25°C                  | CH1: 13.81V ~ 16.41V                                                         |
| 2  | OUTPUT VOLTAGE<br>TOLERANCE (Max) | V1 : 3.0% ~ -3.0%                  | I/P : 115VAC / 264VAC<br>O/P: FULL / MINLOAD<br>TA= 25°C    | V1: 0.73% ~ 0.33%                                                            |
| 3  | LINE REGULATION<br>(MAX.)         | V1 : 0.5% ~ -0.5%                  | I/P : 115VAC / 264VAC<br>O/P: FULL LOAD<br>TA : 25°C        | V1: 0.00% ~ -0.07%                                                           |
| 4  | LOAD REGULATION<br>(MAX.)         | V1 : 1.0% ~ -1.0%                  | I/P : 230VAC<br>O/P: MIN LOAD ~ FULL LOAD<br>TA : 25°C      | V1: 0.20% ~ -0.13%                                                           |
| 5  | OVER/UNDERSHOOT<br>TEST           | < ±5%                              | I/P : 230VAC<br>O/P: FULL LOAD<br>TA : 25°C                 | TEST< 2.0 %                                                                  |
| 6  | RIPPLE & NOISE(Max)               | V1 : 120 mVp-p                     | I/P : 230VAC<br>O/P: FULL LOAD<br>TA : 25°C                 | V1 : 53.2 mVp-p                                                              |
|    |                                   |                                    | high frequency:                                             | low frequency:                                                               |
| 7  | SET UP TIME (MAX.)                | 230VAC : 1000ms<br>115VAC : 1500ms | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C | 230VAC : 768ms<br>115VAC : 300ms                                             |
|    |                                   |                                    |                                                             | INPUT=230VAC/50HZ @ FULL LOAD<br>CH1 : Output Voltage CH2 : AC Input Voltage |
| 7  | SET UP TIME (MAX.)                | 230VAC : 1000ms<br>115VAC : 1500ms | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C | 230VAC : 768ms<br>115VAC : 300ms                                             |
|    |                                   |                                    |                                                             | INPUT=115VAC/60HZ @ FULL LOAD<br>CH1 : Output Voltage CH2 : AC Input Voltage |

|    |                                                                                                                                                                                                             |                                |                                                                                                     |                                       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------|
| 8  | RISE TIME (MAX.)                                                                                                                                                                                            | 230VAC : 30ms<br>115VAC : 30ms | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C                                         | 230VAC : 10.4ms<br>115VAC : 9.0ms     |
|    | <div> <div>INPUT=230VAC/50HZ @ FULL LOAD<br/>CH1 : Output Voltage</div> </div> <div> <div>INPUT=115VAC/60HZ @ FULL LOAD<br/>CH1 : Output Voltage</div> </div>                                               |                                |                                                                                                     |                                       |
| 9  | HOLD UP TIME (TYP.)                                                                                                                                                                                         | 230VAC : 16ms<br>115VAC : 12ms | I/P : 230VAC<br>I/P : 115VAC<br>O/P: FULL LOAD<br>TA : 25°C                                         | 230VAC : 16.7ms<br>115VAC : 16.4ms    |
|    | <div> <div>INPUT=230VAC/50HZ @ FULL LOAD<br/>CH1 : Output Voltage CH2 : AC Input Voltage</div> </div> <div> <div>INPUT=115VAC/60HZ @ FULL LOAD<br/>CH1 : Output Voltage CH2 : AC Input Voltage</div> </div> |                                |                                                                                                     |                                       |
| 10 | DYNAMIC LOAD                                                                                                                                                                                                | V1 : 1500 mVp-p                | I/P : 230VAC<br>O/P: (1)Full/Min load 50% duty/120HZ<br>(2)Full/Min load 50% duty/1KHZ<br>TA : 25°C | V1: (1). 1200mv (2). 812mv unit:mVp-p |
|    | <div> <div>FULL /MIN LOAD 50%DUTY / 120HZ</div> </div> <div> <div>FULL /MIN% LOAD 50%DUTY / 1KHZ</div> </div>                                                                                               |                                |                                                                                                     |                                       |

## INPUT FUNCTION TEST

| NO                                                                                   | TEST ITEM                 | SPECIFICATION                     | TEST CONDITION                                                                                                                                                                             | RESULT                                                |
|--------------------------------------------------------------------------------------|---------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 1                                                                                    | INPUT VOLTAGE RANGE       | 80VAC ~ 264VAC<br>113VDC ~ 370VDC | I/P : TESTING<br>O/P : FULL LOAD<br>Ta : 25°C<br><br>I/P :<br>LOW-LINE = 112VAC<br>HIGH-LINE = 300VAC<br>O/P : FULL/MIN LOAD<br>ON:30 Sec ; OFF:30 Sec 10MIN<br>( POWER ON/OFF NO DAMAGE ) | 68.0VAC ~ 264VAC<br>99.0VDC ~ 370VDC<br><br>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.)      | 2.1A / 230VAC<br>4.2A / 115VAC    | I/P : 230VAC<br>I/P : 115VAC<br>O/P : FULL LOAD<br>TA : 25°C                                                                                                                               | I= 1.917A / 230VAC<br>I= 3.97A / 115VAC               |
| 4                                                                                    | LEAKAGE CURRENT           | < 0.75mA                          | I/P : 264VAC<br>O/P : MIN LOAD<br>TA : 25°C                                                                                                                                                | L-FG 0.23 mA<br>N-FG 0.26 mA                          |
| 5                                                                                    | NO LOAD POWER CONSUMPTION | < 0.50W                           | I/P : 230VAC<br>O/P : MIN LOAD<br>TA : 25°C                                                                                                                                                | < 0.417 W                                             |
| 6                                                                                    | POWER FACTOR (TYP.)       | 0.94 / 230VAC<br>0.98 / 115VAC    | I/P : 230VAC<br>I/P : 115VAC<br>O/P : FULL LOAD<br>TA : 25°C                                                                                                                               | PF= 0.994 / 230VAC<br>PF= 0.998 / 115VAC              |
|   |                           |                                   |                                                                                                                                                                                            |                                                       |
| 7                                                                                    | EFFICIENCY (TYP.)         | 92.0%                             | I/P : 230VAC<br>O/P : FULL LOAD<br>TA : 25°C                                                                                                                                               | 92.3 %                                                |
|  |                           |                                   |                                                                                                                                                                                            |                                                       |



### PROTECTION FUNCTION TEST

| NO | TEST ITEM                   | SPECIFICATION                          | TEST CONDITION                                                         | RESULT                                                                                                                     |
|----|-----------------------------|----------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1  | OVER LOAD PROTECTION        | 105% ~ 135%                            | I/P: 264VAC<br>I/P: 230VAC<br>I/P: 115VAC<br>O/P: TESTING<br>TA : 25°C | 121.53% 264VAC<br>121.53% 230VAC<br>121.19% 115VAC<br>Hiccup Mode, recovers automatically after fault condition is removed |
| 2  | OVER VOLTAGE PROTECTION     | 16.50V ~ 19.50V                        | I/P: 264VAC<br>I/P: 230VAC<br>I/P: 80VAC<br>O/P: MIN LOAD<br>TA : 25°C | 17.40V 264VAC<br>17.40V 230VAC<br>17.40V 80VAC<br>Shut down Re- power ON                                                   |
| 3  | OVER TEMPERATURE PROTECTION | Shut down Re- power ON                 | I/P: 264VAC<br>I/P: 80VAC<br>O/P: FULL LOAD<br>TA : 25°C               | O.T.P. Active<br>Shut down o/p voltage, recovers automatically after temperature goes down                                 |
| 4  | 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, recovers automatically after fault condition is removed                                          |

### CONTROL FUNCTION TEST

| NO | TEST ITEM              | SPECIFICATION                                                                        | TEST CONDITION                                            | RESULT                                                         |
|----|------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| 1  | PS-ON INPUT SIGNAL     | Power on: PS-ON = "Hi" or " > 2 ~ 5V" ;<br>Power off: PS-ON = "Low" or " < 0 ~ 0.5V" | I/P: 230VAC<br>O/P: FULL LOAD<br>TA : 25°C                | OK                                                             |
| 2  | 5V STANDBY             | 5V / 1.0A<br>ripple & noise: 120 mv<br>Tolerance: ±2%                                | I/P: 230VAC<br>O/P: FULL LOAD<br>TA : 25°C                | 4.97 V/ 0.9938 A<br>ripple & noise: 66 mv<br>Tolerance: ±0.6 % |
| 3  | FAN SUPPLY             | 12V / 0.5A<br>Tolerance: ±10%                                                        | I/P: 230VAC<br>O/P: FULL LOAD<br>TA : 25°C                | 11.88 V/ 0.4935 A<br>Tolerance: ±1 %                           |
| 4  | POWER GOOD/ POWER FAIL | > 1ms<br>10ms< PG < 500ms                                                            | I/P: 230VAC<br>I/P: 115VAC<br>O/P: FULL LOAD<br>TA : 25°C | 88.8ms 8.0ms /230VAC<br>90.0ms 7.6ms /115VAC                   |

# COMPONENT STRESS TEST

| NO | TEST ITEM            | SPECIFICATION                                                        | TEST CONDITION                                                                                                                                                          | RESULT                                                                                                              |
|----|----------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1  | PWM Power Transistor | Q5 Rated : 600V 30.0A                                                | I/P : 267VAC<br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25℃                                                            | VIN: 267VAC<br>VDS:<br>(1). 404.00V<br>(2). 444.00V<br>(3). 396.00V                                                 |
| 2  | PWM Power Transistor | Q6 Rated : 600V 30.0A                                                | I/P : 267VAC<br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25℃                                                            | VIN: 267VAC<br>VDS:<br>(1). 400.00V<br>(2). 440.00V<br>(3). 398.00V                                                 |
| 3  | PWM Power Transistor | U900 Rated : 725V 0.7A                                               | I/P : 267VAC<br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25℃                                                            | VIN: 267VAC<br>VDS:<br>(1). 486.00V<br>(2). 506.00V<br>(3). 484.00V                                                 |
| 4  | O/P MOSFET           | Q101 Rated : 60V 200.0A<br>Q102 Rated : 60V 200.0A                   | I/P : 267VAC<br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue<br>Ta : 25℃                                                            | Q101 VDS :<br>Q102 VDS :<br>(1). 44.20V 43.00V<br>(2). 11.90V 11.60V<br>(3). 44.00V 43.00V                          |
| 5  | Input Capacitor      | C5 Rated : 270uf 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℃                                                | (1). 386.00V<br>(2). 388.00V<br>(3). 398.00V                                                                        |
| 6  | Control IC           | U2 Rated : 26V (max) -0.3V (min)<br>U1 Rated : 16V (max) -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℃                                                | U2 U1<br>(1). 15.60V 14.00V<br>(2). 15.90V 13.80V<br>(3). 15.50V 14.10V<br>(4). 15.50V 13.80V<br>(5). 16.50V 13.80V |
| 7  | Control IC           | U101 Rated : 24V (max) -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℃                                                | U101<br>(1). 11.60V<br>(2). 5.50V<br>(3). 11.50V<br>(4). 11.40V<br>(5). 11.30V                                      |
| 8  | PFC Power Transistor | Q1 Rated : 600V 35.0A                                                | I/P : 267VAC<br>VDS :<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Full load continue PASS<br>Ta : 25℃                                                       | VIN: 267VAC<br>VDS:<br>(1). 476.00V<br>(2). 526.00V<br>(3). 464.00V                                                 |
| 9  | PFC Diode            | D10 Rated : 600V 6.0A                                                | I/P : 267VAC<br>O/P : (1)Full Load Turn on<br>(2) Output Short<br>(3)Dynamic Load Full/Min Load 90%Duty/5KHz<br>(4)Dynamic Load Full/Min Load 50%Duty/120Hz<br>Ta : 25℃ | 267VAC<br>(1). 400.00V<br>(2). 402.00V<br>(3). 402.00V<br>(4). 396.00V                                              |

# SAFETY & E.M.C. TEST

## SAFETY TEST

| NO | TEST ITEM            | SPECIFICATION                                                            | TEST CONDITION                                                                          | RESULT                                                                 |
|----|----------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1  | WITHSTAND VOLTAGE    | I/P-O/P : 3KV /min<br>I/P-FG : 2KV /min<br>O/P-FG : 0.5KV /min           | I/P-O/P: 3.600KVAC /min<br>I/P-FG: 2.400KVAC /min<br>O/P-FG: 0.600KVAC /min<br>Ta : 25℃ | I/P-O/P: 1.49mA<br>I/P-FG: 2.00mA<br>O/P-FG: 0.55mA<br>NO DAMAGE       |
| 2  | ISOLATION RESISTANCE | I/P-O/P : 500VDC>100MΩ<br>I/P-FG : 500VDC>100MΩ<br>O/P-FG : 500VDC>100MΩ | I/P-O/P: 500VDC<br>I/P-FG: 500VDC<br>O/P-FG: 500VDC<br>Ta : 25℃/70%RH                   | I/P-O/P: 9999.0MΩ<br>I/P-FG: 9999.0MΩ<br>O/P-FG: 9999.0MΩ<br>NO DAMAGE |

## E.M.C. TEST

| NO | TEST ITEM  | SPECIFICATION                                    | TEST CONDITION                                               | RESULT                        |
|----|------------|--------------------------------------------------|--------------------------------------------------------------|-------------------------------|
| 1  | HARMONIC   | EN61000-3-2<br>CLASS A<br>Shut down Re- power ON | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25℃            | PASS                          |
| 2  | CONDUCTION | EN55022<br>CLASS B                               | I/P : 230VAC /50HZ<br>O/P : FULL LOAD / 50% LOAD<br>Ta : 25℃ | PASS<br>Test by certified Lab |
| 3  | RADIATION  | EN55022<br>CLASS B                               | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25℃            | PASS<br>Test by certified Lab |
| 4  | E.S.D      | EN61000-4-2<br>AIR: 15KV / Contact: 8KV          | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25℃            | 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℃            | CRITERIA A                    |
| 6  | SURGE      | IEC61000-4-5<br>INDUSTRY L-N: 2KV; L/N-PE: 4KV   | I/P : 230VAC /50HZ<br>O/P : FULL LOAD<br>Ta : 25℃            | CRITERIA A                    |

# RELIABILITY TEST

| NO | TEST ITEM             | SPECIFICATION                                                                                                                                                  | TEST CONDITION                                         | RESULT |
|----|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------|
| 1  | TEMPERATURE RISE TEST | MODEL : EPP-400-12<br>1. ROOM AMBIENT BURN-IN : 1.0hrs<br>IP: 230VAC O/P: 250W TA= 25.5℃<br>2. HIGH AMBIENT BURN-IN : 1.0hrs<br>IP: 230VAC O/P: 250W TA= 44.9℃ | NO. Position ROOM AMBIENT 25.5℃ HIGH AMBIENT Ta: 44.9℃ |        |
|    |                       |                                                                                                                                                                | 1 BD1 62.5℃ 78.2℃                                      |        |
|    |                       |                                                                                                                                                                | 2 LF3 40.6℃ 57.3℃                                      |        |
|    |                       |                                                                                                                                                                | 3 C1 42.0℃ 58.7℃                                       |        |
|    |                       |                                                                                                                                                                | 4 LF1 42.9℃ 59.7℃                                      |        |
|    |                       |                                                                                                                                                                | 5 LF2 49.8℃ 65.7℃                                      |        |
|    |                       |                                                                                                                                                                | 6 C2 47.4℃ 62.3℃                                       |        |
|    |                       |                                                                                                                                                                | 7 Q5 80.8℃ 95.6℃                                       |        |
|    |                       |                                                                                                                                                                | 8 Q6 74.3℃ 89.6℃                                       |        |
|    |                       |                                                                                                                                                                | 9 L1 79.4℃ 95.0℃                                       |        |
|    |                       |                                                                                                                                                                | 10 D10 71.0℃ 86.2℃                                     |        |
|    |                       |                                                                                                                                                                | 11 Q1 72.1℃ 87.3℃                                      |        |
|    |                       |                                                                                                                                                                | 12 T1COIL 83.5℃ 97.3℃                                  |        |
|    |                       |                                                                                                                                                                | 13 T1COIL 74.2℃ 89.1℃                                  |        |
|    |                       |                                                                                                                                                                | 14 C5 69.4℃ 82.5℃                                      |        |
|    |                       |                                                                                                                                                                | 15 L2 84.1℃ 96.9℃                                      |        |
|    |                       |                                                                                                                                                                | 16 Q101 79.3℃ 94.9℃                                    |        |
|    |                       |                                                                                                                                                                | 17 Q102 67.8℃ 83.4℃                                    |        |
|    |                       |                                                                                                                                                                | 18 TSW1 65.7℃ 80.8℃                                    |        |
|    |                       |                                                                                                                                                                | 19 C105 73.3℃ 89.0℃                                    |        |
|    |                       |                                                                                                                                                                | 20 U900 73.5℃ 88.5℃                                    |        |
|    |                       |                                                                                                                                                                | 21 U2 68.9℃ 84.3℃                                      |        |
|    |                       |                                                                                                                                                                | 22 U1 68.5℃ 82.7℃                                      |        |
|    |                       |                                                                                                                                                                | 23 D911 72.7℃ 87.1℃                                    |        |
|    |                       |                                                                                                                                                                | 24 T900 64.5℃ 80.0℃                                    |        |



|    |                                                        |                                                                                                                                                                                                                                                                                   |                                                                    |                                                                           |
|----|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| 2  | OVER LOAD BURN-IN TEST                                 | NO DAMAGE<br>1 HOUR ( MIN )                                                                                                                                                                                                                                                       | I/P : 230VAC<br>O/P : 121.00% 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 45°C<br>NO DAMAGE                                                                                                                                                                                                                      | I/P : 272VAC<br>O/P : FULL LOAD<br>Ta : 45°C<br>HUMIDITY= 95.0% RH | TEST : OK                                                                 |
| 5  | TEMPERATURE COEFFICIENT                                | ±0.03% /(0°C~50°C)                                                                                                                                                                                                                                                                | I/P : 230VAC<br>O/P : FULL LOAD                                    | ±0.0043% /(0°C~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 ~ +50°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 : 60 min in each axis (X.Y.Z)<br>(6) Ta : 25°C                                                                                                                 |                                                                    | TEST : OK                                                                 |
| 9  | CAPACITOR LIFE CYCLE                                   | :SUPPOSE C105 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= 45.0°C LIFE TIME<br>(3) I/P : 230VAC O/P : 75% LOAD Ta= 45.0°C LIFE TIME<br>(4) I/P : 230VAC O/P : 50% LOAD Ta= 45.0°C LIFE TIME    |                                                                    | (1). 75771.6 HRS<br>(2). 31213.5 HRS<br>(3). 71286 HRS<br>(4). 174348 HRS |
| 10 | MTBF                                                   | Conducted by Parts Stress Analysis Prediction<br>194.1K hrs min. MIL-HDBK-217F (25°C)                                                                                                                                                                                             |                                                                    |                                                                           |
| 11 | DMTBF /Accelerated Life test                           | Demonstration Mean Time Between Failure (Expected Life): Above 30000HRS @ TA 45°C<br>O/P : FULL LOAD                                                                                                                                                                              |                                                                    |                                                                           |

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

12.10.30 A50-F031