



Test Report: HRPG-1000-12

1000W 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

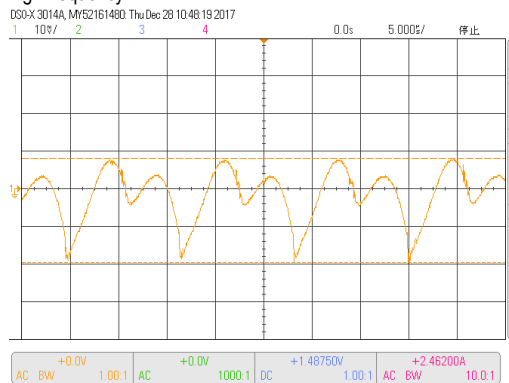
- ENVIRONMENT TEST

■ DESIGN VERIFY TEST

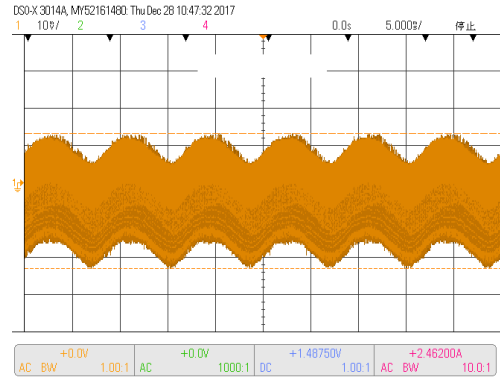
OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------------------|------------------|---|---|
| 1 | OUTPUT VOLTAGE ADJUST RANGE | CH1: 11V~ 14 V | I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C | 10.486V~14.415V/230VAC 10.47V~14.426V/115VAC |
| 2 | OUTPUT VOLTAGE(Max) TOLERANCE | V1: 2%~ -2 % | I/P: 200VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25°C | V1:0.42%~ 0% |
| 3 | LINE REGULATION (Max) | V1: 0.5%~ -0.5 % | I/P: 200VAC~ 264VAC O/P:FULL LOAD Ta:25°C | V1:0%~0% |
| 4 | LOAD REGULATION(Max) | V1: 2%~ -2 % | I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C | V1:0.08%~0.25% |
| 5 | OVER/UNDERSHOOT TEST | < ±5% | I/P: 230VAC O/P:FULL LOAD Ta:25°C | <±5% |
| 6 | RIPPLE & NOISE(Max) | V1: 150mVp-p | I/P:230VAC O/P:FULL LOAD Ta:25°C | V1:36.2mVp-p |

high frequency :



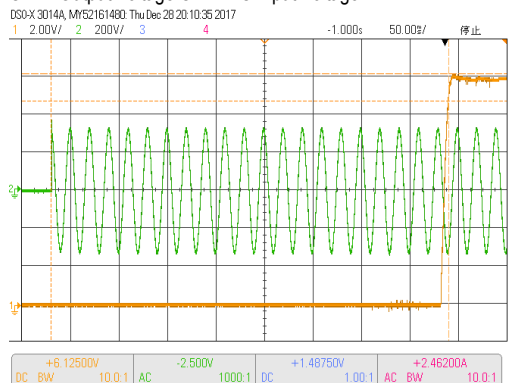
low frequency :



| | | | | |
|---|------------------|--------------------------------|--|------------------------------|
| 7 | SET UP TIME(Max) | 230VAC/1000ms 115VAC/2000ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/410ms 115VAC/472ms |
|---|------------------|--------------------------------|--|------------------------------|

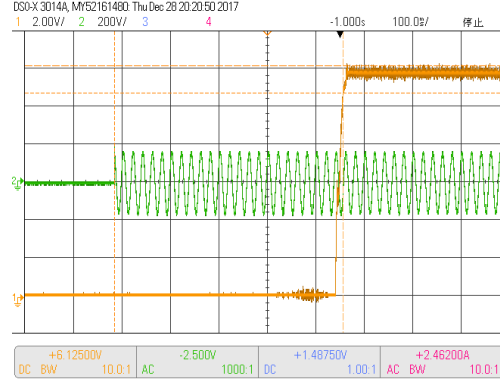
INPUT=230VAC/50HZ @ FULL LOAD

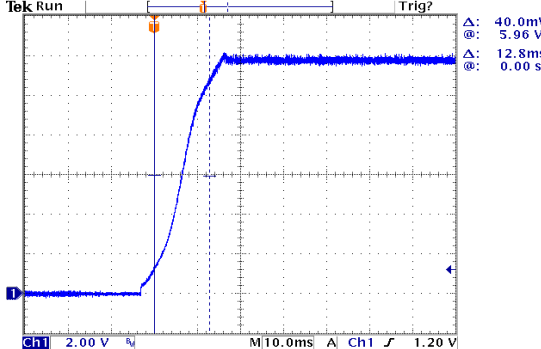
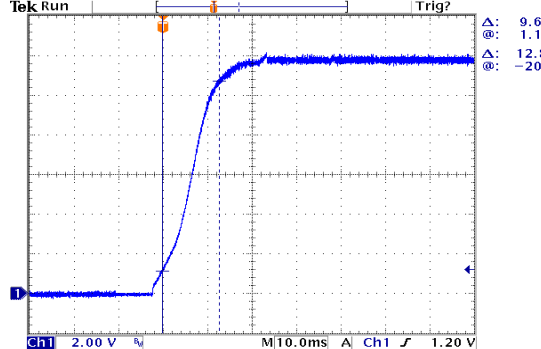
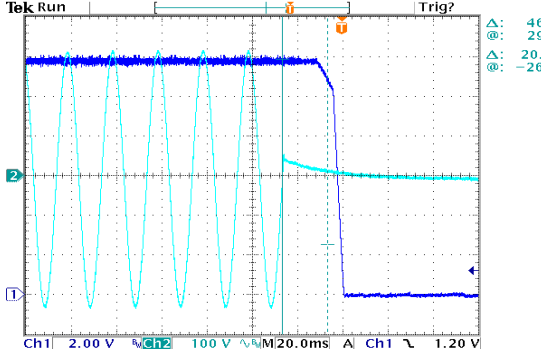
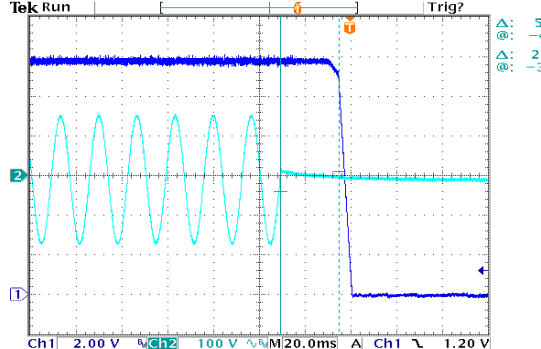
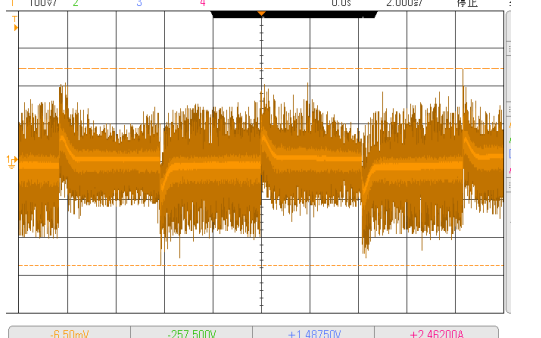
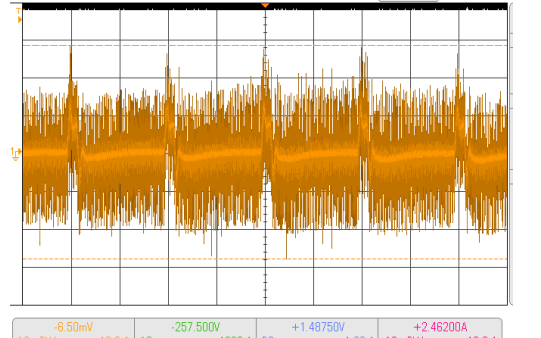
CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage

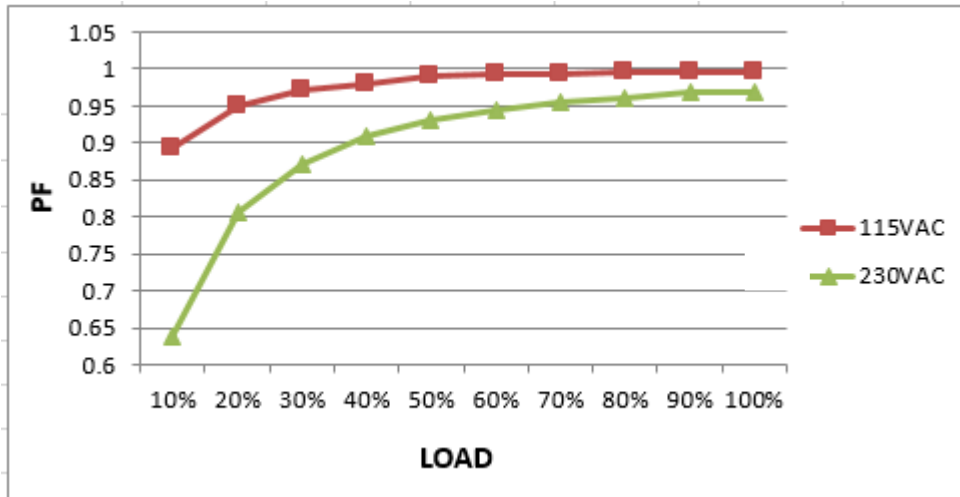


| | | | |
|---|----------------------------|--|--------------------------------|
| 8 RISE TIME (Max) | 230VAC/50ms 115VAC/50ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/12.8ms 115VAC/12.8ms |
| INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  | | INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage  | |
| 9 HOLD UP TIME (Typ.) | 230VAC/16ms 115VAC/16ms | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | 230VAC/20.0ms 115VAC/25.6ms |
| INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  | | INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage  | |
| 10 DYNAMIC LOAD | V1: 1200 mVp-p | I/P: 230VAC O/P: (1)FULL /50% LOAD 50%DUTY / 120HZ (2)FULL /50% LOAD 50%DUTY / 1KHZ Ta:25°C | (1)519mVp-p (2)563mVp-p |
| FULL /50% LOAD 50%DUTY / 120HZ  | | FULL /50% LOAD 50%DUTY / 1KHZ  | |

INPUT FUNCTION TEST

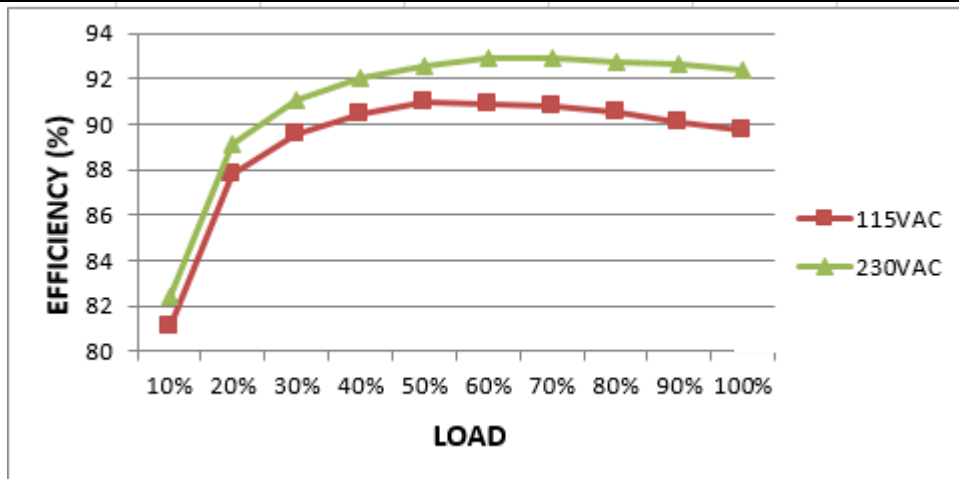
| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------|---|---|------------------------------------|
| 1 | INPUT VOLTAGE RANGE | 90VAC~264VAC | I/P:TESTING O/P:FULL LOAD Ta:25°C | 78V~264V |
| | | | I/P: LOW-LINE-3V=87 V HIGH-LINE+15%=300 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE) | TEST: OK |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE | I/P:100 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C | TEST: OK |
| 3 | INPUT CURRENT (Typ.) | 230V/ 5A 115V/ 8.5A | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I=4.7A/ 230VAC I=8.005A/ 115VAC |
| 4 | LEAKAGE CURRENT | < 1.2mA/240VAC | I/P : 240 VAC O/P : Min LOAD Ta : 25°C | L-FG : 0.3mA N-FG : 0.3mA |
| 5 | NO LOAD CONSUMPTION | < 0.75W No load power consumption<0.75W when RC+&RC- open | I/P : 115VAC I/P : 230VAC O/P : NO LOAD Ta : 25°C | < 0.403 W < 0.667 W |
| 6 | POWER FACTOR (Typ.) | 0.95/ 230VAC 0.98/115VAC | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | PF=0.972/230VAC PF=0.995/115VAC |

P.F vs LOAD



| | | | | |
|---|------------------|-------|---|--------|
| 7 | EFFICIENCY(Typ.) | 91.5% | I/P:230 VAC O/P:FULL LOAD Ta:25°C | 92.07% |
|---|------------------|-------|---|--------|

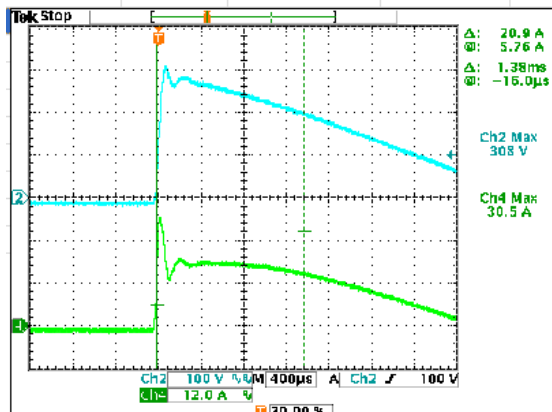
EFFICIENCY vs LOAD



| | | | | |
|---|----------------------|------------------------------------|--|--|
| 8 | INRUSH CURRENT(Typ.) | 230V/40A 115V/20A COLD START | I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C | I=30.5A/ 230VAC I=17A/ 115VAC T50= 1380us/230V |
|---|----------------------|------------------------------------|--|--|

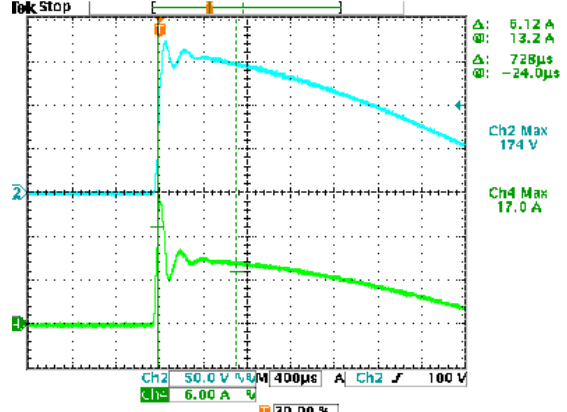
INPUT=230VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current



INPUT=115VAC/ 60HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current

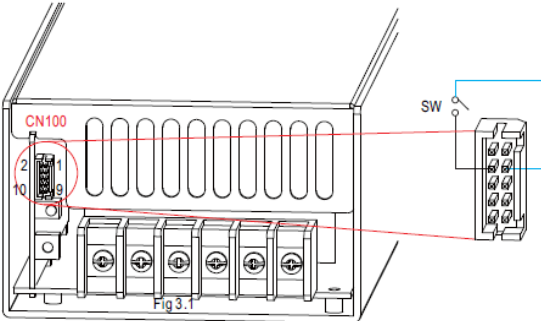
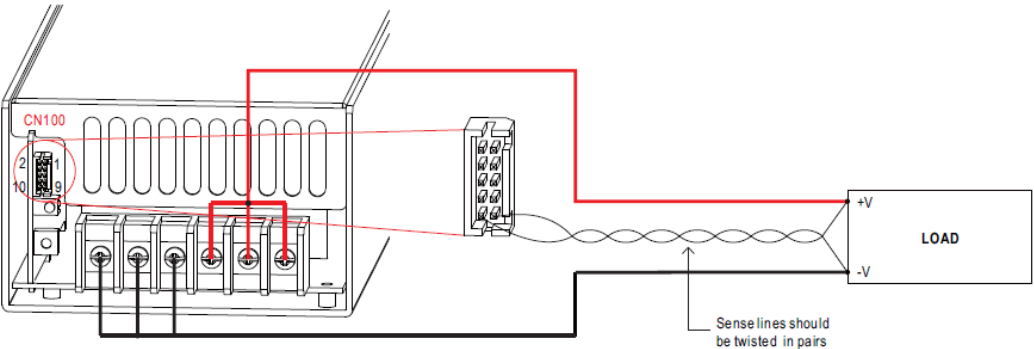


PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------------|--|---|---|
| 1 | OVER LOAD PROTECTION | 105%~ 135 % Protection type : Constant current limiting, recovers automatically after fault condition is removed | I/P: 264VAC I/P: 230VAC I/P: 115VAC O/P:TESTING Ta:25°C | 118.64%/ 264VAC 118.66%/ 230VAC 118.61%/115VAC PROTECTION TYPE : Constant current limiting, recovers automatically after fault condition is removed |
| 2 | OVER VOLTAGE PROTECTION | 14.5V~16.5V Protection type : Shut down o/p voltage, re-power on to recover | I/P: 264VAC I/P: 230VAC I/P: 90VAC O/P:MIN LOAD Ta:25°C | 15.407V/ 264VAC 15.407V/ 230VAC 15.407V/ 90VAC PROTECTION TYPE : Shut down o/p voltage, re-power on to recover |
| 3 | OVER TEMPERATURE PROTECTION | Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | I/P: 264VAC I/P: 90VAC O/P:FULL LOAD | O.T.P. Active Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |

| | | | | |
|---|------------------|--|--|--|
| 4 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P: 264VAC I/P: 90VAC O/P: FULL LOAD Ta:25°C | NO DAMAGE PROTECTION TYPE : Constant current limiting, recovers automatically after fault condition is removed |
|---|------------------|--|--|--|

CONTROL FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | | | | | | |
|---------------------------------|-----------------------|--|---|---|---------------|----|---------------|-----|---|---|
| 1 | CURRENT SHARING | < 10% | I/P : 230 VAC O/P : FULL/50% LOAD Ta : 25°C | O/P : 90% PSU1 : 76.9A PSU2 : 73.7 A PSU3 : 74.2A PSU4 : 73.3A O/P : 50% PSU1 : 44.5 A PSU2 : 39.6 A PSU3 : 41.8A PSU4 : 39.8A | | | | | | |
| 2 | REMOTE ON/OFF CONTROL | The PSU can be turned ON/OFF by using the "Remote Control" function. <table border="1" data-bbox="454 963 810 1064"> <tr> <td>Between RC+(pin3) and RC-(pin4)</td> <td>Output Status</td> </tr> <tr> <td>SW ON (Short)</td> <td>ON</td> </tr> <tr> <td>SW OFF (Open)</td> <td>OFF</td> </tr> </table> | Between RC+(pin3) and RC-(pin4) | Output Status | SW ON (Short) | ON | SW OFF (Open) | OFF | I/P: 230 VAC O/P: FULL LOAD Ta:25°C TEST RESULT : OK |  |
| Between RC+(pin3) and RC-(pin4) | Output Status | | | | | | | | | |
| SW ON (Short) | ON | | | | | | | | | |
| SW OFF (Open) | OFF | | | | | | | | | |
| 3 | REMOTE SENSE | S+ / S- >0.5V | I/P: 230 VAC O/P:FULL LOAD Ta:25°C TEST RESULT: > 0.5 V |  | | | | | | |
| 4 | DC OK SIGNAL | The TTL signal out, PSU turn on = 3.3 ~ 5.6V ; PSU turn off = 0 ~ 1V | | | | | | | | |

| | | <p>DC-OK signal is a TTL level signal. High when PSU turns on.</p> <table border="1"> <tr> <th>Between DC-OK(pin7) and GND(pin6,8)</th> <th>Output Status</th> </tr> <tr> <td>3.3 ~ 5.6V</td> <td>ON</td> </tr> <tr> <td>0 ~ 1V</td> <td>OFF</td> </tr> </table> <p>I/P:230VAC O/P:FULL LOAD Ta:25°C TEST RESULT: PSU turn on = 5.27V PSU turn off = 0.005V</p> | Between DC-OK(pin7) and GND(pin6,8) | Output Status | 3.3 ~ 5.6V | ON | 0 ~ 1V | OFF | | | | | |
|-------------------------------------|---------------|---|--|--|------------|-------|--------|--------|------|--------|---------|------|--------|
| Between DC-OK(pin7) and GND(pin6,8) | Output Status | | | | | | | | | | | | |
| 3.3 ~ 5.6V | ON | | | | | | | | | | | | |
| 0 ~ 1V | OFF | | | | | | | | | | | | |
| 5 | 5V STANDBY | 5VSB : 5V@0.3A ; tolerance± 5%, ripple : 50mVp-p(max.) | I/P: 230 VAC O/P:FULL LOAD Ta:25°C | TEST RESULT : 4.94 V /0.303A Ripple : 5.1 mVp-p | | | | | | | | | |
| 6 | FAN CONTROL | FAN ON/OFF BY BY NTC (RT50) OR LOAD | I/P: 230 VAC O/P:TESTING | <table border="1"> <thead> <tr> <th></th> <th>TEMP.</th> <th>LOAD</th> </tr> </thead> <tbody> <tr> <td>FAN ON</td> <td>55°C</td> <td>>15.2%</td> </tr> <tr> <td>FAN OFF</td> <td>36°C</td> <td><14.8%</td> </tr> </tbody> </table> | | TEMP. | LOAD | FAN ON | 55°C | >15.2% | FAN OFF | 36°C | <14.8% |
| | TEMP. | LOAD | | | | | | | | | | | |
| FAN ON | 55°C | >15.2% | | | | | | | | | | | |
| FAN OFF | 36°C | <14.8% | | | | | | | | | | | |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|--------------------------|--|---|
| 1 | PWM Transistor (D to S) or (C to E) Peak Voltage | Q911 Rated 26 A/ 600V | I/P:High-Line +3V =303V AC ON/OFF VDS: O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C | VDS: (1)547V (2)547V (3)555V (4)559V (5)547V (6)543V (7)551V |
| 2 | P.F.C Transistor (D to S) or (C to E) Peak Voltage | Q1 Rated 34A/ 600V | I/P:High-Line +3V =303V V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6)Dynamic Load 100% Load/ | VDS: (1) 515 V (2) 519V (3) 511V (4) 519V (5) 515V (6) 519V (7) 458V |

| | | | | |
|---|------------------------------|---|---|--|
| | | | Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C | |
| 3 | P.F.C DIODE | D6 Rated 6A/ 600V | I/P:High-Line +3V =303V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz Ta:25°C | (1) 381V (2) 393V (3) 385V (4) 377V |
| 4 | SR MOSFET Peak Voltage | Q508 Rated 100A/ 80V Q506 Rated 100A/ 80V | I/P:High-Line +3V =303V V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8).NO LOAD (9) burst mode Ta:25°C | Q508: VDS: (1)35.6V (2)12.7V (3)35.2V (4)35.6V (5)35.6V (6)35.2V (7)32.8V (8)32.8V (9)32.8V Q506: VDS: (1)36.4V (2)13.5V (3)35.6V (4)36V (5)36V (6)36V (7)33.2V (8)31.6V (9)32.4V |
| 5 | Input Capacitor Voltage | C5 Rated: 220μ/ 400V | I/P:High-Line +3V =303V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta:25°C | (1)453V (2)465V (3)441V (4)437V |
| 6 | Control IC Voltage Test | PFC IC U1: Absolute Rating: -0.3 V ~ 26 V Operating Range: 12.9 V ~ 25 V PWM IC U900: Absolute Rating: Self-limited Operating Range: 8.85 V ~ 16 V | I/P:High-Line +3V =303V V AC ON/OFF O/P:(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VR MIN.LOW LINE Ta:25°C | PFC IC (1) 22.4V (2) 22V (3) 21.8V (4) 19.4V (5) 18V PWM IC (1) 14.4V (2) 14.4V (3) 14.4V (4) 14.2V (5) 13V |
| 7 | TOP SWITCHING STAND BY POWER | U971 Rated 1.8A/ 700 V | I/P:High-Line +3V =303V V AC ON/OFF O/P: (1)Full Load (2)Remote On/Off Ta:25°C | (1) 561V (2) 553V |

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------|---------------|----------------|--------|
|----|-----------|---------------|----------------|--------|

| | | | | |
|---|----------------------|---|---|--|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:0.5KVAC/min | I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C | I/P-O/P:5.2mA I/P-FG:4.46mA O/P-FG:2.7mA NO DAMAGE |
| 2 | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ | I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C | I/P-O/P: 30GΩ I/P-FG: 30GΩ O/P-FG:5.51 GΩ NO DAMAGE |
| 3 | GROUNDING CONTINUITY | FG(PE) TO CHASSIS OR TRACE < 100 mΩ | 40A / 2min Ta:25°C | 13mΩ |

E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|---|--|--|-----------------------|
| 1 | HARMONIC | EN61000-3-2 CLASS A | I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C | PASS |
| 2 | CONDUCTION | EN55032 /EN55011 CLASS B | I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C | Test by certified Lab |
| 3 | RADIATION | EN55032 /EN55011 CLASS B | I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C | Test by certified Lab |
| 4 | E.S.D | EN61000-4-2 MEDICAL AIR: 8KV / Contact: 4KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A |
| 5 | E.F.T | EN61000-4-4 MEDICAL INDUSTRY INPUT : 2KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A |
| 6 | SURGE | IEC61000-4-5 MEDICAL INDUSTRY L-N : 2KV L,N-PE : 4KV | I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C | CRITERIA A |
| 7 | Test by certified Lab & Test Report Prepare | | | |

■ RELIABILITY TEST

ENVIRONMENT TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|-----------------------|--|----------------|--------|
| 1 | TEMPERATURE RISE TEST | MODEL : HRPG-1000-12 1. ROOM AMBIENT BURN-IN : 1 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25 °C 2. HIGH AMBIENT BURN-IN : 1.5 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50 °C | | |



| | | NO | Position | ROOM AMBIENT Ta= 25 °C | HIGH AMBIENT Ta= 50 °C |
|---|---|--|----------|---|------------------------|
| | | 1 | BD1 | 60.1°C | 82.9°C |
| | | 2 | R6 | 63.2°C | 74.1°C |
| | | 3 | Q1 | 50.3°C | 66.8°C |
| | | 4 | U1 | 56.1°C | 76.0°C |
| | | 5 | D5 | 57.7°C | 72.4°C |
| | | 6 | D6 | 56.5°C | 76.1°C |
| | | 7 | C6 | 43.7°C | 65.6°C |
| | | 8 | U971 | 47.3°C | 71.0°C |
| | | 9 | D981 | 46.5°C | 68.6°C |
| | | 10 | RY1 | 49.8°C | 67.4°C |
| | | 11 | RG2 | 35.2°C | 78.5°C |
| | | 12 | D431 | 48.2°C | 86.7°C |
| | | 13 | C406 | 28.9°C | 54.7°C |
| | | 14 | TSW4 | 37.8°C | 61.9°C |
| | | 15 | L1 | 42.7°C | 78.1°C |
| | | 16 | T951 | 34.9°C | 69.5°C |
| | | 17 | C2 | 48.1°C | 61.5°C |
| | | 18 | LF3 | 54.1°C | 66.9°C |
| | | 19 | T1-1 | 63.5°C | 89.0°C |
| | | 20 | T2-1 | 62.0°C | 91.3°C |
| | | 21 | T2-2 | 60.4°C | 86.3°C |
| | | 22 | L900 | 46.7°C | 70.9°C |
| | | 23 | Q910 | 72.2°C | 97.5°C |
| | | 24 | C933 | 43.0°C | 64.8°C |
| | | 25 | Q911 | 61.6°C | 86.3°C |
| | | 26 | U900 | 36.0°C | 62.5°C |
| | | 27 | C105 | 31.1°C | 73.6°C |
| | | 28 | C108 | 42.5°C | 79.3°C |
| | | 29 | U501 | 44.9°C | 86.0°C |
| | | 30 | Q501 | 75.9°C | 94.4°C |
| | | 31 | Q506 | 78.3°C | 111.7°C |
| | | 32 | U504 | 68.8°C | 94.2°C |
| | | 33 | Q504 | 85.3°C | 106.3°C |
| | | 34 | Q508 | 82.1°C | 112.6°C |
| | | 35 | TSW3 | 37.4°C | 62.0°C |
| 2 | OVER LOAD BURN-IN TEST | NO DAMAGE 1 HOUR (MIN) | | I/P : 230 VAC O/P : 127 % LOAD Ta : 25°C | TEST : OK |
| 3 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | | I/P : 230VAC/90VAC O/P : 100% /80% LOAD Ta= -45°C | TEST : OK |
| 4 | HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST | AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C HUMIDITY= 90 %R.H NO DAMAGE | | I/P : 272 VAC O/P : FULL LOAD Ta= 50°C HUMIDITY= 95 %R.H | TEST : OK |
| 5 | TEMPERATURE COEFFICIENT | ± 0.03 %/°C (0-50°C) | | I/P : 230 VAC O/P : FULL LOAD | ± 0.015 %/°C (0-50°C) |



| | | | |
|----|-----------------------------|---|---|
| 6 | STORAGE TEMPERATURE TEST | -40~85°C | 1. Thermal shock Temperature : -45°C~ +90°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : STATIC |
| 7 | THERMAL SHOCK TEST | -40~50°C | 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 : 16 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test |
| 8 | VIBRATION TEST | 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes | 1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 6G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C |
| 9 | CAPACITOR LIFE CYCLE | 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) 580719HRS (2) 93162HRS (3) 249582HRS (4) 421443HRS |
| 10 | MTBF | Conducted by Parts Stress Analysis Prediction 862.1K hrs min. Telcordia SR-332 (Bellcore) ; 105.9K hrs min. MIL-HDBK-217F (25°C) | |
| 11 | DMTBF/Accelerated Life Test | Demonstration Mean Time Between Failure (Expected Life): Above 50,000 hours @ TA 50°C | |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|------------|------------|---------------|
| PASS | DANIEL GAO | SANFORD SU | VINCENT TSENG |

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