



Test Report: IDPC-45-500

45W Constant Current Mode LED Driver

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test

E.M.C. Test

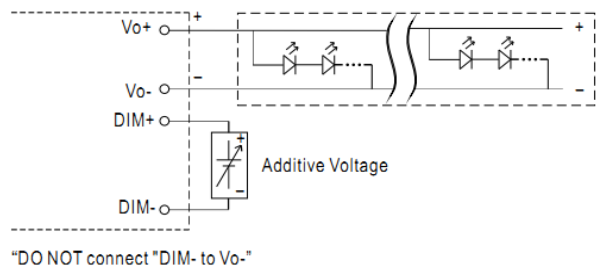
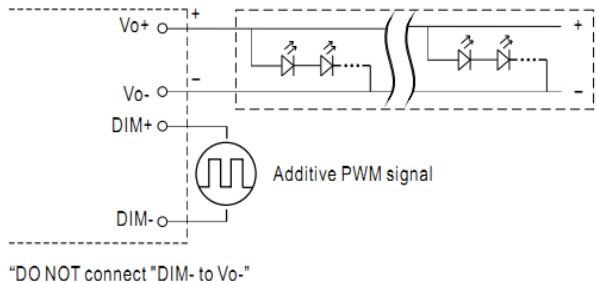
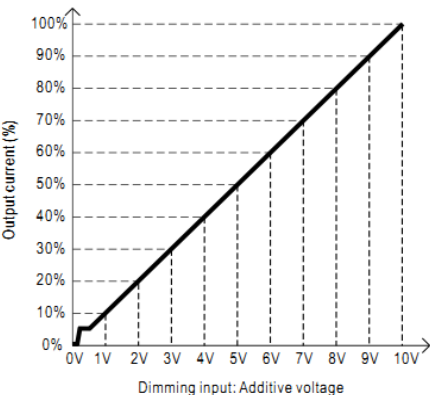
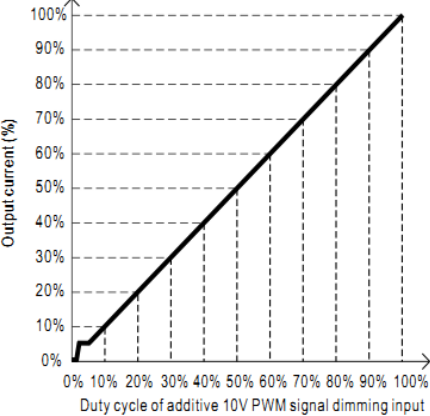
■ RELIABILITY TEST

Environment Test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|--|-----------------------------------|--|--|------------------------------|
| 1 | CONSTANT CURRENT REGION | 54V~90V | I/P: 230VAC O/P: LED MODE Ta: 25°C | 20V~95V |
| 2 | CURRENT RIPPLE | 5% max@rated current | I/P: 230VAC O/P: FULL/MIN LOAD Ta: 25°C | 3.95% |
| 3 | CURRENT TOLERANCE | ±7% | I/P: 230VAC O/P: FULL/MIN LOAD Ta: 25°C | ±1.0% |
| 4 | OPEN CIRCUIT VOLTAGE (max) | 115V | I/P: 230VAC O/P: NO LOAD Ta: 25°C | 110.11V |
| 5 | OVER/UNDERSHOOT TEST | <±5 % | I/P: 230VAC O/P: FULL LOAD Ta: 25°C | <5 % |
| 6 | SET UP TIME | 500ms/230VAC 1200ms/115VAC | I/P: 230 VAC I/P: 115 VAC O/P: FULL LOAD Ta: 25°C | 312ms/230VAC 412ms/115VAC |
| <p>INPUT=230VAC/50HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p>  <p>Δ: 300 V @: 0.00 V Δ: 312ms @: -300ms</p> <p>Ch1 20.0 V 50Hz 250 V 100ms A Ch1 72.0 V</p> <p>70.00 %</p> | | <p>INPUT=115VAC/60HZ @ FULL LOAD</p> <p>CH1: Output Voltage CH2: AC Input Voltage</p>  <p>Δ: 142 V @: 110 V Δ: 412ms @: -402ms</p> <p>Ch1 20.0 V 60Hz 100 V 100ms A Ch1 72.0 V</p> <p>70.00 %</p> | | |
| 7 | AUXILIARY DC OUTPUT (A-Type only) | Nominal 12V (deviation 11.4~12.6) @50mA | I/P: 230 VAC O/P:FULL LOAD | 11.98V |

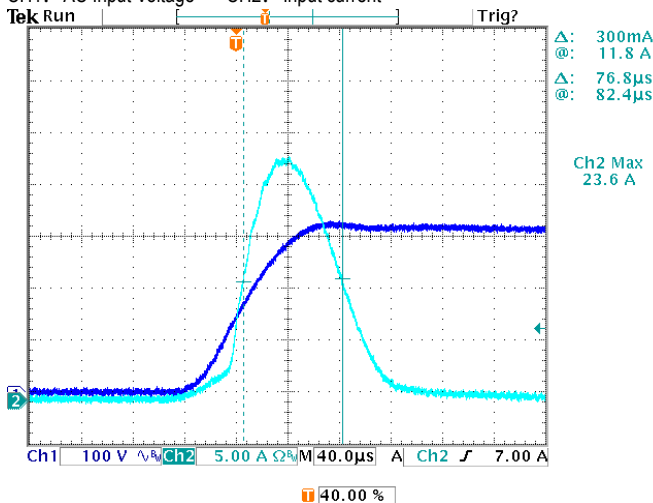
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|--|--------|-----------------|--------|--------|--------|--------|--------|--------|--------|----|----|----|-----|---|----------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-----------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---|----------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-----------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <p>8</p> | <p>DIMMING TEST(For Blank -Type)</p> | <ul style="list-style-type: none"> Output constant current level can be adjusted by applying one of the two methodologies between DIM+ and DIM-: <ul style="list-style-type: none"> 0 ~ 10Vdc, or 10V PWM signal. Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers. ◎ Applying additive 0 ~ 10VDC  <p>“DO NOT connect "DIM- to Vo-”</p> <ul style="list-style-type: none"> ◎ Applying additive 10V PWM signal (frequency range 300Hz ~ 3KHz):  <p>“DO NOT connect "DIM- to Vo-”</p> |   <p>Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.</p> <p>2. The output current could drop down to 0% when dimming input is about 0Vdc or 10V PWM signal with 0% duty cycle.</p> <p>TEST RESULT:</p> <p>I/P: 230 VAC; Ta: 25°C</p> <table border="1"> <tr> <td></td> <td>Dimming voltage</td> <td>0V</td> <td>1V</td> <td>2V</td> <td>3V</td> <td>4V</td> <td>5V</td> <td>6V</td> <td>7V</td> <td>8V</td> <td>9V</td> <td>10V</td> </tr> <tr> <td>1</td> <td>Output Current</td> <td>0A</td> <td>0.040</td> <td>0.099</td> <td>0.147</td> <td>0.198</td> <td>0.248</td> <td>0.300</td> <td>0.350</td> <td>0.398</td> <td>0.448</td> <td>0.497</td> </tr> <tr> <td></td> <td>Percentage of rated current</td> <td>0.00%</td> <td>7.90%</td> <td>19.74%</td> <td>29.48%</td> <td>39.66%</td> <td>49.58%</td> <td>59.90%</td> <td>70.06%</td> <td>79.56%</td> <td>89.58%</td> <td>99.30%</td> </tr> <tr> <td></td> <td>Dimming Duty cycle</td> <td>0%</td> <td>10%</td> <td>20%</td> <td>30%</td> <td>40%</td> <td>50%</td> <td>60%</td> <td>70%</td> <td>80%</td> <td>90%</td> <td>100%</td> </tr> <tr> <td>2</td> <td>Output Current</td> <td>0A</td> <td>0.043</td> <td>0.101</td> <td>0.151</td> <td>0.200</td> <td>0.250</td> <td>0.299</td> <td>0.348</td> <td>0.398</td> <td>0.447</td> <td>0.491</td> </tr> <tr> <td></td> <td>Percentage of rated current</td> <td>0.00%</td> <td>8.58%</td> <td>20.12%</td> <td>30.24%</td> <td>40.06%</td> <td>50.04%</td> <td>59.86%</td> <td>69.66%</td> <td>79.56%</td> <td>89.34%</td> <td>98.12%</td> </tr> </table> <p>TEST RESULT: OK</p> | | Dimming voltage | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | 1 | Output Current | 0A | 0.040 | 0.099 | 0.147 | 0.198 | 0.248 | 0.300 | 0.350 | 0.398 | 0.448 | 0.497 | | Percentage of rated current | 0.00% | 7.90% | 19.74% | 29.48% | 39.66% | 49.58% | 59.90% | 70.06% | 79.56% | 89.58% | 99.30% | | Dimming Duty cycle | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | 2 | Output Current | 0A | 0.043 | 0.101 | 0.151 | 0.200 | 0.250 | 0.299 | 0.348 | 0.398 | 0.447 | 0.491 | | Percentage of rated current | 0.00% | 8.58% | 20.12% | 30.24% | 40.06% | 50.04% | 59.86% | 69.66% | 79.56% | 89.34% | 98.12% |
| | Dimming voltage | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V | 8V | 9V | 10V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Output Current | 0A | 0.040 | 0.099 | 0.147 | 0.198 | 0.248 | 0.300 | 0.350 | 0.398 | 0.448 | 0.497 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Dimming Duty cycle | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Output Current | 0A | 0.043 | 0.101 | 0.151 | 0.200 | 0.250 | 0.299 | 0.348 | 0.398 | 0.447 | 0.491 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>9</p> | <p>DALI DIMMING OPERATION (primary side: for DA-Type)</p> | <p>※DALI Interface</p> <ul style="list-style-type: none"> Apply DALI signal between DA+ and DA-. DALI protocol comprises 16 groups and 64 addresses. First step is fixed at 8% of output. <p>I/P: 230 VAC O/P: DIMMING TEST Ta: 25°C TEST RESULT: OK</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|--------------------------------------|--|---|--|
| 1 | INPUT VOLTAGE RANGE | 90VAC~295VAC | I/P: TESTING O/P: FULL LOAD Ta: 25°C | 87V~305V |
| | | | I/P: (1)LOW-LINE-3V=87 V HIGH-LINE+10V=305 V O/P: FULL/MIN LOAD ON: 30 Sec OFF: 30 Sec 10MIN (2)230VAC ON: 0.5 Sec OFF: 0.5 Sec 20MIN (POWER ON/OFF NO DAMAGE) | TEST: OK |
| 2 | INPUT FREQUENCY RANGE | 47HZ ~63 HZ NO DAMAGE | I/P: 90 VAC ~295 VAC O/P: FULL~MIN LOAD Ta: 25°C | TEST: OK |
| 3 | AC CURRENT | 0.6A/115VAC 0.4A/230VAC 0.3A/277VAC | I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C | I =0.434A/ 115VAC I =0.219A/ 230VAC I =0.188A/ 277VAC |
| 4 | LEAKAGE CURRENT | < 0.75mA / 277VAC | I/P: 277 VAC O/P: NO LOAD Ta: 25°C | L-CASE: 0.0027 mA N-CASE: 0.0027 mA |
| 5 | NO LOAD/STANDBY POWER CONSUMPTION | < 0.5W for Blank-Type < 1.2W for A-Type < 0.5W for DA-Type | I/P: 230VAC O/P: NO LOAD Ta: 25°C | 0.468W for Blank-Type 0.568W for A-Type 0.453W for DA-Type |
| 6 | INRUSH CURRENT(Typ) | 230V/ 30A Twidth =100 us measured at 50% Ipeak COLD START | I/P: 230 VAC O/P: FULL LOAD Ta: 25°C | I =23.6A/ 230VAC Twidth =76.8us |

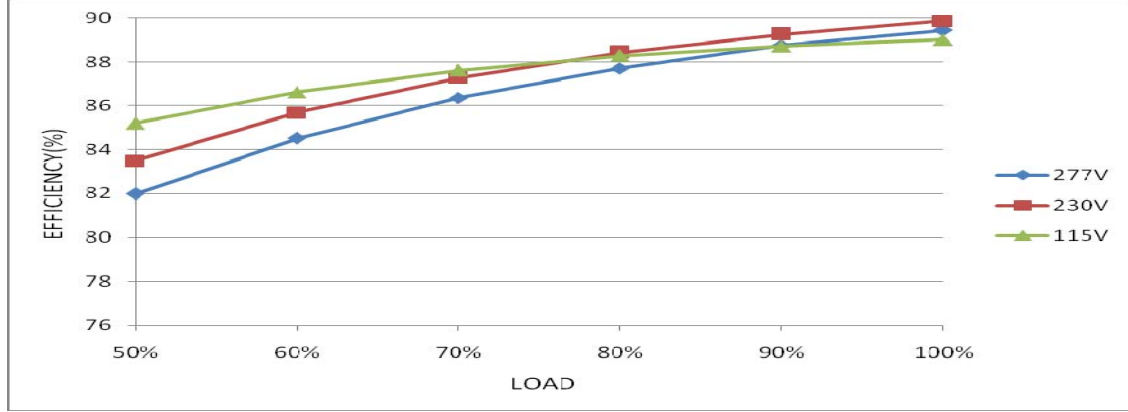
INPUT=230VAC/50HZ @ FULL LOAD

CH1: AC Input Voltage CH2: Input current



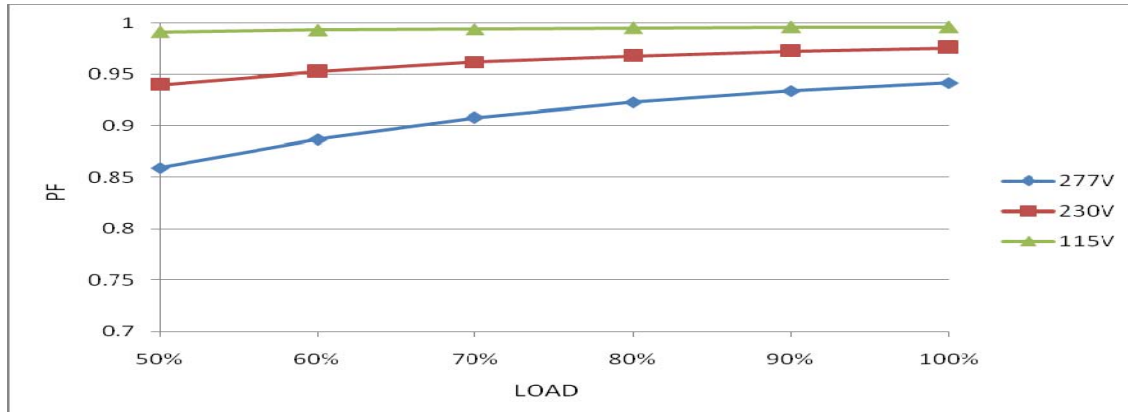
| | | | | |
|---|-----------------|-----|---|--------|
| 7 | EFFICIENCY(Typ) | 85% | I/P: 230VAC O/P: FULL LOAD Ta: 25°C | 89.87% |
|---|-----------------|-----|---|--------|

EFFICIENCY vs LOAD



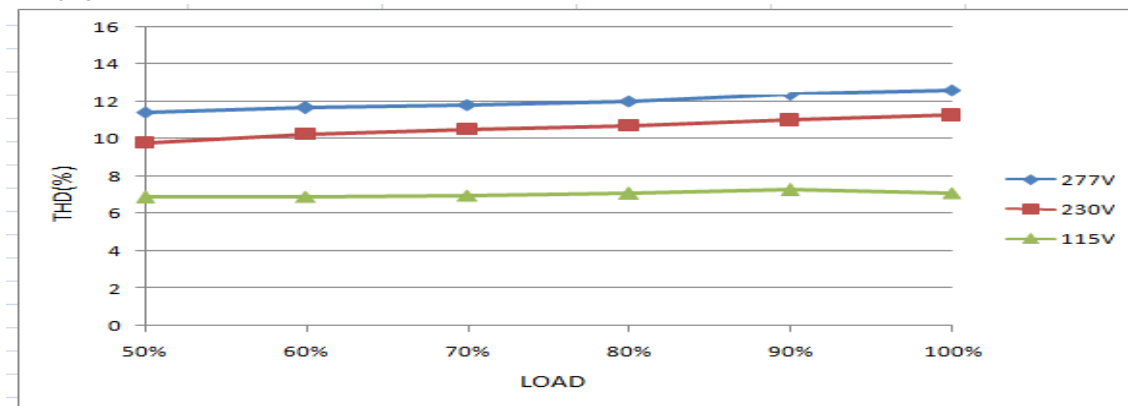
| | | | | |
|---|--------------|--|--|--|
| 8 | POWER FACTOR | 0.95/ 115VAC 0.92/ 230VAC 0.90/ 277VAC | I/P: 115 VAC I/P: 230 VAC I/P: 277 VAC O/P: FULL LOAD Ta: 25°C | PF=0.996/ 115VAC PF=0.976/ 230VAC PF=0.942/ 277VAC |
|---|--------------|--|--|--|

P.F vs LOAD



| | | | | |
|---|---------------------------|--|---|---|
| 9 | TOTAL HARMONIC DISTORTION | THD<20% (@load≥60%/115VAC, 230VAC; @load≥75%/277VAC) | I/P: 115 VAC/60% LOAD I/P: 230 VAC/60% LOAD I/P: 277 VAC/75% LOAD Ta: 25°C | THD=6.89% @60% load /115VAC THD=10.20% @60% load /230VAC THD=11.85% @75% load /277VAC |
|---|---------------------------|--|---|---|

THD vs LOAD



PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|--------------------------|--|---|---|
| 1 | SHORT CIRCUIT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P: 90VAC I/P: 295VAC O/P: FULL LOAD Ta: 25°C | NO DAMAGE Hiccup mode, recovers automatically after fault condition is removed |

COMPONENT STRESS TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|------------------------|--|-------------------------------------|
| 1 | PWM Power Transistor | Q 1 Rated 800V/9A | I/P: High-Line +3V =298V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C | (1) 608V (2) 524V (3) 542V |
| 2 | O/P Diode (MOSFET) | D101 Rated 1000V/5A | I/P: High-Line +3V =298V O/P: (1) Full Load Turn on (2) Output Short (3) Full load continue Ta: 25°C | (1) 808V (2) 796V (3) 804V |
| 3 | Control IC | U1 Rated 35V (MAX) | I/P: High-Line +3V =298V O/P: (1) FULL LOAD (2) Output Short (3) Low Line No Load Ta: 25°C | (1) 17.9V (2) 17.9V (3) 17.9V |
| 4 | Clamp Diode | D 1 Rated 1000V/1A | I/P: High-Line +3V = 298V O/P: (1) Full Load input on/off (2) Output Short Ta: 25°C | (1) 490V (2) 458V |

SAFETY TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT |
|----|----------------------|-----------------------|-------------------------------------|-------------------------------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3.75KVAC/min | I/P-O/P: 4.2 KVAC/min Ta: 25°C | I/P-O/P: 2.487mA NO DAMAGE |
| 2 | ISOLATION RESISTANCE | I/P-O/P: 500VDC>100MΩ | I/P-O/P: 500 VDC Ta: 25°C/70% RH | I/P-O/P: >9999MΩ |

E.M.C TEST

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

■ **RELIABILITY TEST**

ENVIRONMENT TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDITION | RESULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|---|--|---|--|----|----------|------------------------|-----------------------|---|------|-------|-------|---|-----|-------|-------|---|----|-------|-------|---|----|-------|-------|---|----|-------|-------|---|----|-------|-------|---|-----|-------|-------|---|-----|-------|-------|---|------|-------|--------|----|------|-------|-------|----|------|-------|-------|----|------|-------|-------|----|------|-------|-------|
| 1 | TEMPERATURE RISE TEST | MODEL: IDPC-45-700 1. ROOM AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 30.1℃ 2. HIGH AMBIENT BURN-IN: 2 HRS I/P: 230VAC O/P: FULL LOAD Ta= 45.7℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 30.1℃</th> <th>HIGH AMBIENT Ta=45.7℃</th> </tr> </thead> <tbody> <tr><td>1</td><td>ZNR1</td><td>36.2℃</td><td>49.6℃</td></tr> <tr><td>2</td><td>BD1</td><td>67.3℃</td><td>80.5℃</td></tr> <tr><td>3</td><td>D1</td><td>74.5℃</td><td>88.4℃</td></tr> <tr><td>4</td><td>Q1</td><td>77.9℃</td><td>91.9℃</td></tr> <tr><td>5</td><td>U1</td><td>65.6℃</td><td>78.4℃</td></tr> <tr><td>6</td><td>T1</td><td>78.4℃</td><td>92.3℃</td></tr> <tr><td>7</td><td>C16</td><td>62.0℃</td><td>75.1℃</td></tr> <tr><td>8</td><td>RG1</td><td>76.8℃</td><td>89.7℃</td></tr> <tr><td>9</td><td>D101</td><td>93.1℃</td><td>105.3℃</td></tr> <tr><td>10</td><td>C201</td><td>65.0℃</td><td>78.4℃</td></tr> <tr><td>11</td><td>Q100</td><td>58.9℃</td><td>72.6℃</td></tr> <tr><td>12</td><td>L100</td><td>71.2℃</td><td>85.2℃</td></tr> <tr><td>13</td><td>C106</td><td>61.7℃</td><td>74.6℃</td></tr> </tbody> </table> | NO | Position | ROOM AMBIENT Ta= 30.1℃ | HIGH AMBIENT Ta=45.7℃ | 1 | ZNR1 | 36.2℃ | 49.6℃ | 2 | BD1 | 67.3℃ | 80.5℃ | 3 | D1 | 74.5℃ | 88.4℃ | 4 | Q1 | 77.9℃ | 91.9℃ | 5 | U1 | 65.6℃ | 78.4℃ | 6 | T1 | 78.4℃ | 92.3℃ | 7 | C16 | 62.0℃ | 75.1℃ | 8 | RG1 | 76.8℃ | 89.7℃ | 9 | D101 | 93.1℃ | 105.3℃ | 10 | C201 | 65.0℃ | 78.4℃ | 11 | Q100 | 58.9℃ | 72.6℃ | 12 | L100 | 71.2℃ | 85.2℃ | 13 | C106 | 61.7℃ | 74.6℃ |
| NO | Position | ROOM AMBIENT Ta= 30.1℃ | HIGH AMBIENT Ta=45.7℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ZNR1 | 36.2℃ | 49.6℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BD1 | 67.3℃ | 80.5℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | D1 | 74.5℃ | 88.4℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Q1 | 77.9℃ | 91.9℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | U1 | 65.6℃ | 78.4℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | T1 | 78.4℃ | 92.3℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C16 | 62.0℃ | 75.1℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | RG1 | 76.8℃ | 89.7℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | D101 | 93.1℃ | 105.3℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | C201 | 65.0℃ | 78.4℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Q100 | 58.9℃ | 72.6℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | L100 | 71.2℃ | 85.2℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | C106 | 61.7℃ | 74.6℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOUR | I/P: 295VAC/90VAC O/P: FULL/80% LOAD Ta= -25℃ | TEST: OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST | AFTER 12 HOURS IN CHAMBER ON CONTROL 40℃ NO DAMAGE | I/P: 305VAC O/P: FULL LOAD Ta=40℃ HUMIDITY= 95%R.H | TEST: OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | TEMPERATURE COEFFICIENT | ±0.03 %/℃(0~40℃) | I/P: 230 VAC O/P: FULL LOAD | ±0.01%/℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | STORAGE TEMPERATURE TEST | 1. Thermal shock Temperature: -45℃~ +85℃ 2. Temperature change rate : 25℃ / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 5 CYCLE 5. Input/Output condition: AC OFF STATIC | | TEST: OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | THERMAL SHOCK TEST | 1. Thermal shock Temperature: -25℃~ +45℃ 2. Temperature change rate : 25℃ / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle: 16 CYCLE 5. Input/Output condition: 230VAC/Full Load AC ON/OFF TEST AC on 3 sec/AC off 1 sec TEST | | TEST: OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| 7 | VIBRATION TEST | <p>1 Carton & 1 Set</p> <p>(1) Waveform: Sine Wave</p> <p>(2) Frequency: 10~500Hz</p> <p>(3) Sweep Time: 10min/sweep cycle</p> <p>(4) Acceleration: 2G</p> <p>(5) Test Time: 60min in each axis (X.Y.Z)</p> <p>(6) Ta: 25°C</p> | TEST: OK |
| 8 | CAPACITOR LIFE CYCLE | <p>IDPC-45-700: SUPPOSE C106 IS THE MOST CRITICAL COMPONENT</p> <p>(1) I/P: 230VAC O/P: FULL LOAD Ta= 25 °C LIFE TIME</p> <p>(2) I/P: 230VAC O/P: FULL LOAD Ta= 40 °C LIFE TIME</p> <p>(3) I/P: 230VAC O/P: 75% LOAD Ta= 40 °C LIFE TIME</p> <p>(4) I/P: 230VAC O/P: MIN LOAD Ta= 40 °C LIFE TIME</p> | <p>(1) 419576 HRS</p> <p>(2) 178876 HRS</p> <p>(3) 195559 HRS</p> <p>(4) 202008 HRS</p> |
| 9 | MTBF | <p>Conducted by Parts Stress Analysis Prediction</p> <p>408.8K hrs min. MIL-HDBK-217F (25°C)</p> | |

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