



# Test Report: NGE65U18-P1J

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65W AC-DC Reliable Wall-mounted Interchangeable  
Type Green Adaptor

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

Control Function Test

Component Stress Test

## ■ SAFETY & E.M.C. TEST

Safety Test

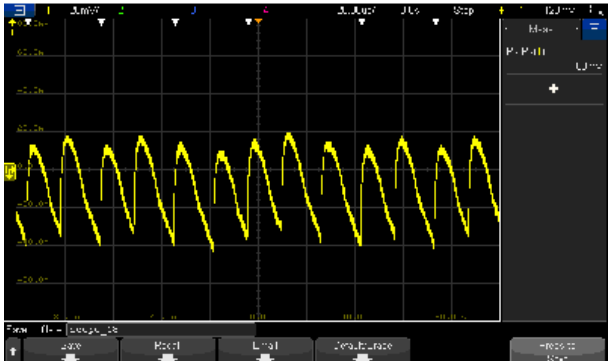
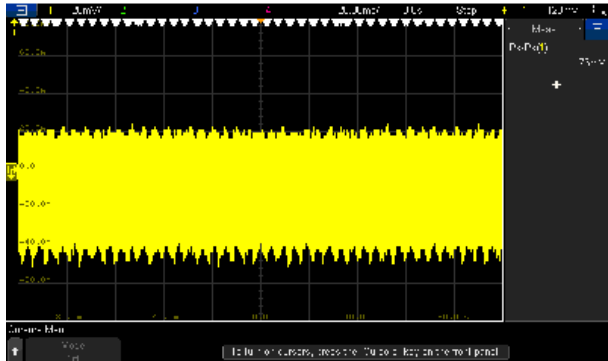
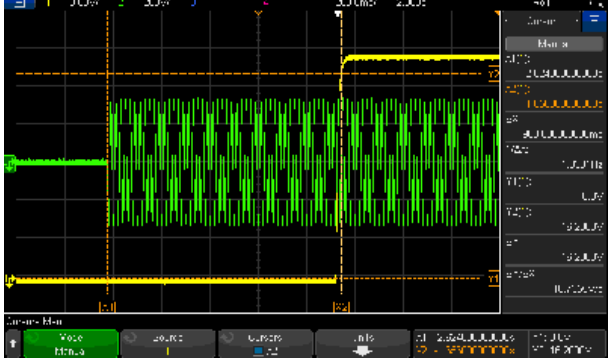
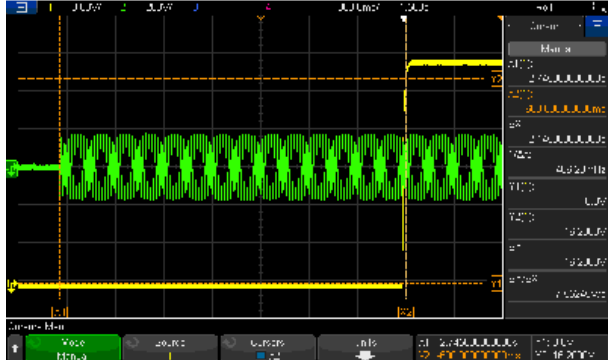
E.M.C. Test

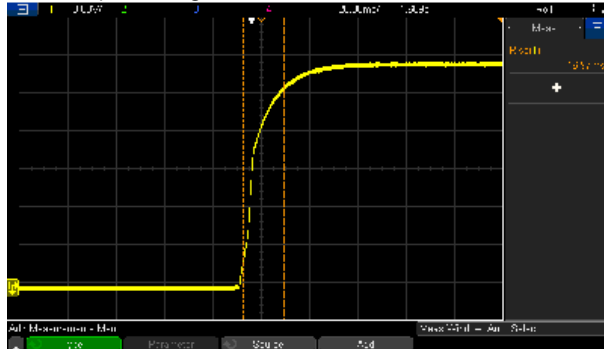
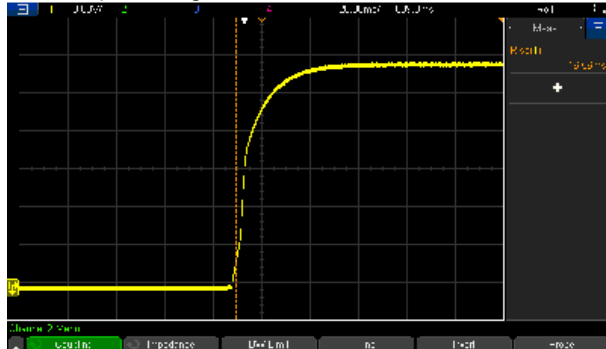
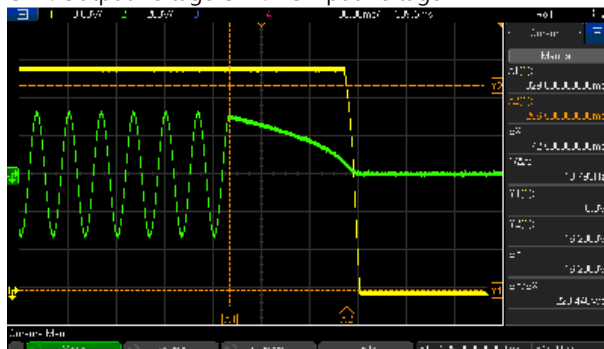
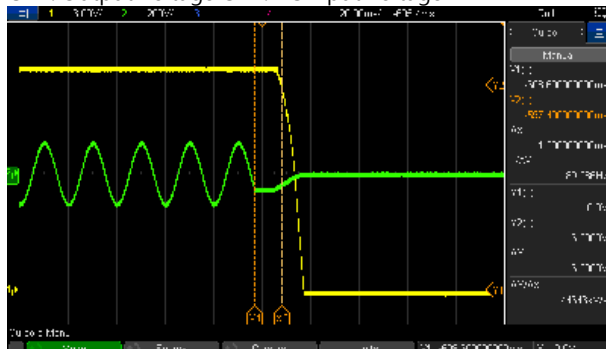
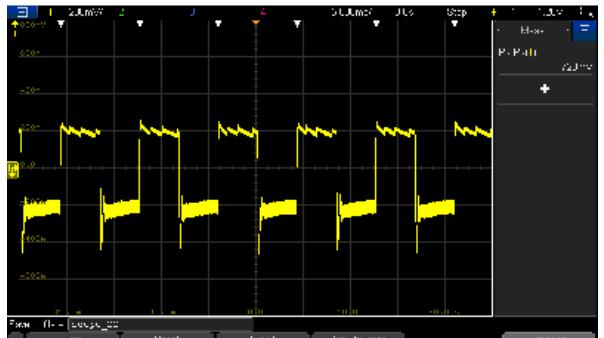
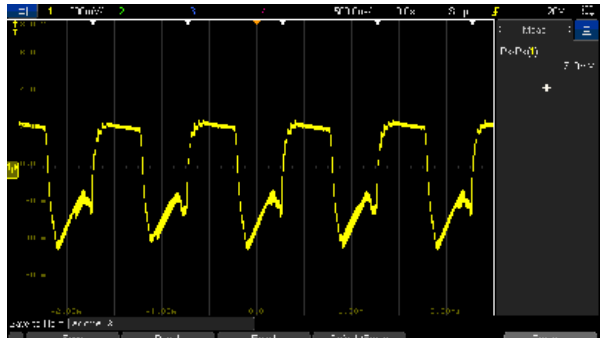
## ■ RELIABILITY TEST

ENVIRONMENT TEST

## DESIGN VERIFY TEST

### OUTPUT FUNCTION TEST

| NO                                                                                                                                                                                                                                                                                                                                                                                             | TEST ITEM                | SPECIFICATION                  | TEST CONDITION                                                 | RESULT                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------|----------------------------------------------------------------|---------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                              | OUTPUT VOLTAGE TOLERANCE | V1: -3%~ +3%                   | I/P: 80VAC~264VAC<br>O/P:FULL~MIN. LOAD<br>Ta:25°C             | V1: -1.02%~1.01%                                        |
| 2                                                                                                                                                                                                                                                                                                                                                                                              | LINE REGULATION          | V1: -1%~ +1%                   | I/P: 80VAC~ 264VAC<br>O/P:FULL LOAD<br>Ta:25°C                 | V1: 0.00%~0.01%                                         |
| 3                                                                                                                                                                                                                                                                                                                                                                                              | LOAD REGULATION          | V1: -3%~ +3%                   | I/P: 230VAC<br>O/P:FULL ~MIN LOAD<br>Ta:25°C                   | V1: -1.02%~1.01%                                        |
| 4                                                                                                                                                                                                                                                                                                                                                                                              | OVER/UNDERSHOOT TEST     | <±5%                           | I/P: 230VAC<br>O/P:FULL LOAD<br>Ta:25°C                        | 1.7%                                                    |
| 5                                                                                                                                                                                                                                                                                                                                                                                              | RIPPLE & NOISE (Max )    | V1: 180mVp-p                   | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C                         | V1: 63mVp-p / high frequency<br>76mVp-p / low frequency |
| <div> <div>high frequency :</div>  </div> <div> <div>low frequency :</div>  </div>                                                                                                                                      |                          |                                |                                                                |                                                         |
| 6                                                                                                                                                                                                                                                                                                                                                                                              | SET UP TIME(Max)         | 230VAC/1500ms<br>115VAC/3000ms | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C | 230VAC/ 968ms<br>115VAC/ 2145ms                         |
| <div> <div>INPUT=230VAC/50HZ @ FULL LOAD</div> <div>CH1: Output Voltage CH2: AC Input Voltage</div>  </div> <div> <div>INPUT=115VAC/60HZ @ FULL LOAD</div> <div>CH1: Output Voltage CH2: AC Input Voltage</div>  </div> |                          |                                |                                                                |                                                         |

|                                                                                     |                     |                            |                                                                                                       |                                    |
|-------------------------------------------------------------------------------------|---------------------|----------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
| 7                                                                                   | RISE TIME (Max)     | 230VAC/50ms<br>115VAC/50ms | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                        | 230VAC/ 16.97ms<br>115VAC/ 16.56ms |
| INPUT=230VAC/50HZ @ FULL LOAD<br>CH1: Output Voltage                                |                     |                            | INPUT=115VAC/60HZ @ FULL LOAD<br>CH1: Output Voltage                                                  |                                    |
|    |                     |                            |                     |                                    |
| 8                                                                                   | HOLD UP TIME (Typ.) | 230VAC/30ms<br>115VAC/10ms | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                        | 230VAC/ 72.5ms<br>115VAC/ 11.2ms   |
| 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                            |                                    |
|  |                     |                            |                   |                                    |
| 9                                                                                   | DYNAMIC LOAD        | V1: 1800mVp-p              | I/P: 230VAC<br>O/P:<br>(1) FULL/0% LOAD 50%DUTY / 120HZ<br>(2) FULL/0% LOAD 50%DUTY / 1KHZ<br>Ta:25°C | 720mVp-p<br>710mVp-p               |
| FULL /0% LOAD 50%DUTY / 120HZ                                                       |                     |                            | FULL /0% LOAD 50%DUTY / 1KHZ                                                                          |                                    |
|  |                     |                            |                   |                                    |

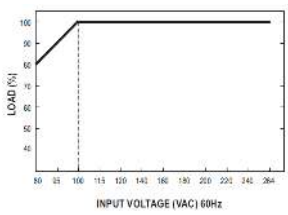
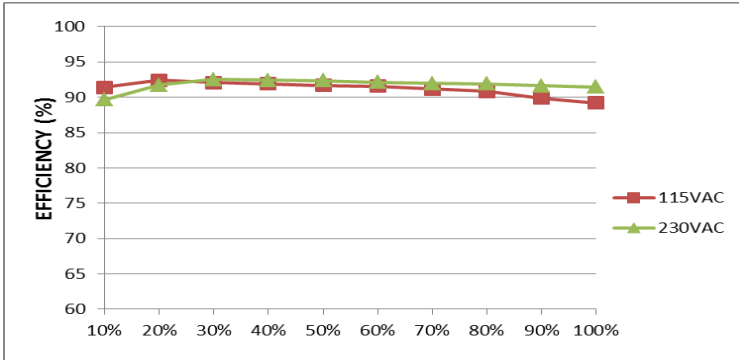


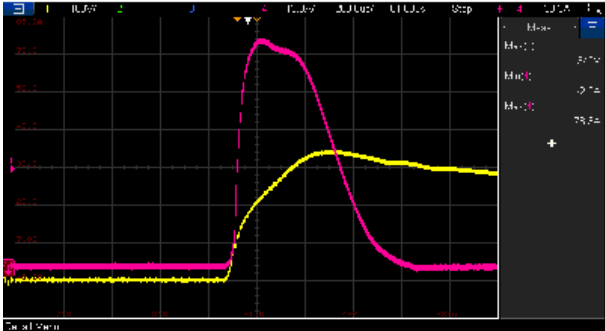
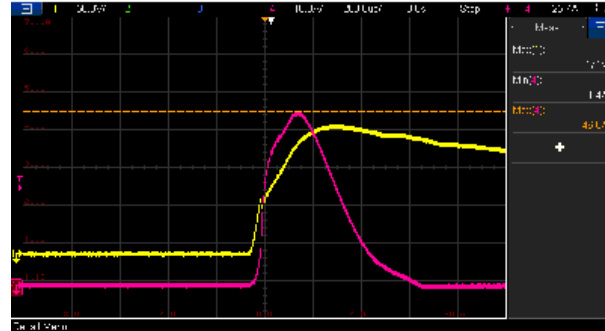
65W AC-DC Reliable Wall-mounted  
Interchangeable Type Green Adaptor

NGE65 series

|    |                         |                          |                                                              |                 |
|----|-------------------------|--------------------------|--------------------------------------------------------------|-----------------|
| 10 | TRANSIENT RECOVERY TIME | V1: 1800mVp-p<br>< 500us | I/P: 230VAC<br>O/P:40% LOAD CHANGE<br>50%DUTY/120HZ 1.25A/us | 322mVp-p<br>0us |
|----|-------------------------|--------------------------|--------------------------------------------------------------|-----------------|

## INPUT FUNCTION TEST

| NO                                                                                                        | TEST ITEM             | SPECIFICATION                                                                                                       | TEST CONDITION                                                                                                                                                                                                                                                                                                                                   | RESULT                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                         | INPUT VOLTAGE RANGE   | 80VAC~264VAC<br>113VDC~ 370VDC<br> | (1) I/P: TESTING<br>O/P: FULL LOAD/ 80% LOAD<br>(2) I/P: DC TESTING (L: + N:-)<br>O/P: FULL LOAD/ 80% LOAD<br>(3) I/P: DC TESTING (L: - N: +)<br>O/P: FULL LOAD/ 80% LOAD<br>Ta:25°C<br><br>I/P:<br>HIGH-LINE+15%=300V<br>O/P:FULL LOAD /MIN LOAD<br>(PLEASE CHECK DERATING CURVE)<br>ON: 30 Sec OFF: 30 Sec 10MIN<br>( POWER ON/OFF NO DAMAGE ) | (1) 76.8V~264V/ FULL LOAD<br>76.5V~264V/ 80% LOAD<br>(2) 110Vdc~370Vdc/FULL LOAD<br>110Vdc~370Vdc/80% LOAD<br>(3) 110Vdc~370Vdc/FULL LOAD<br>110Vdc~370Vdc/80% LOAD<br><br>TEST: OK |
| 2                                                                                                         | INPUT FREQUENCY RANGE | 47HZ ~63 HZ<br>NO DAMAGE                                                                                            | I/P:80 VAC ~264 VAC<br>O/P:FULL~MIN LOAD<br>Ta:25°C                                                                                                                                                                                                                                                                                              | TEST: OK                                                                                                                                                                            |
| 3                                                                                                         | INPUT CURRENT (Typ.)  | 230V/ 0.8A<br>115V/ 1.5A                                                                                            | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C                                                                                                                                                                                                                                                                                   | I =0.73A/ 230VAC<br>I =1.13A/ 115VAC                                                                                                                                                |
| 4                                                                                                         | LEAKAGE CURRENT       | Touch current 100uA/ 264V<br>for 60601                                                                              | I/P : 264 VAC<br>O/P : Min LOAD<br>Ta : 25°C                                                                                                                                                                                                                                                                                                     | 71.6uA                                                                                                                                                                              |
| 5                                                                                                         | NO LOAD CONSUMPTION   | < 0.075W                                                                                                            | I/P : 240VAC<br>O/P : NO LOAD<br>Ta : 25°C                                                                                                                                                                                                                                                                                                       | 0.0573W                                                                                                                                                                             |
| 6                                                                                                         | EFFICIENCY(Typ.)      | 89%                                                                                                                 | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C                                                                                                                                                                                                                                                                                                           | 91.5%                                                                                                                                                                               |
| EFFICIENCY vs LOAD<br> |                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                     |

|                                                                            |                      |                                                                                    |                                                                |                                                         |
|----------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|
| 7                                                                          | INRUSH CURRENT(Typ.) | 230V/100A<br>115V/50A<br>COLD START                                                | I/P : 230 VAC<br>I/P : 115 VAC<br>O/P : FULL LOAD<br>Ta : 25°C | I =78.3A/ 230VAC<br>I =46A/ 115VAC<br>T50=399.8 us/230V |
| INPUT=230VAC/50HZ @ FULL LOAD<br>CH1: AC Input Voltage CH4: Input current  |                      |   |                                                                |                                                         |
| INPUT=115VAC/ 60HZ @ FULL LOAD<br>CH1: AC Input Voltage CH4: Input current |                      |  |                                                                |                                                         |

## PROTECTION FUNCTION TEST

| NO | TEST ITEM               | SPECIFICATION                                                                                                                      | TEST CONDITION                                                       | RESULT                                                                                                                                         |
|----|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | OVER LOAD PROTECTION    | 110%~150% rated output power<br>Protection type:<br>Hiccup mode, recovers automatically after fault condition is removed           | I/P: 264VAC<br>I/P: 230VAC<br>I/P: 100VAC<br>O/P: TESTING<br>Ta:25°C | 134.5%/ 264VAC<br>135.3%/ 230VAC<br>121.5%/100VAC<br>PROTECTION TYPE :<br>Hiccup mode, recovers automatically after fault condition is removed |
| 2  | OVER VOLTAGE PROTECTION | 110%~140% rated output voltage<br>Protection type:<br>Clamp by zener diode                                                         | I/P: AC OFF<br>O/P: MIN LOAD<br>Ta:25°C                              | 21.57V<br>PROTECTION TYPE :<br>Clamp by zener diode                                                                                            |
| 3  | SHORT PROTECTION        | SHORT EVERY OUTPUT<br>1 HOUR NO DAMAGE<br>Protection type:<br>Hiccup mode, recovers automatically after fault condition is removed | I/P: 264VAC<br>I/P: 80VAC<br>O/P: FULL LOAD<br>Ta:25°C               | NO DAMAGE OK<br>PROTECTION TYPE :<br>Hiccup mode, recovers automatically after fault condition is removed                                      |

## COMPONENT STRESS TEST

| NO | TEST ITEM                                               | SPECIFICATION               | TEST CONDITION                                                                                                       | RESULT                                                     |
|----|---------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 1  | PWM Transistor<br>( D to S) or (C to E)<br>Peak Voltage | Q1<br>Rated:<br>10.6A/ 650V | AC ON/OFF<br>I/P: High-Line +3V =267V<br>VDS:<br>O/P: (1)Full Load<br>(2)Output Short<br>(3) Dynamic Load Full Load/ | Q1<br>VDS:<br>(1) 526V<br>(2) 522V<br>(3) 538V<br>(4) 530V |



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Interchangeable Type Green Adaptor

NGE65 series

|   |                          |                                                                          |                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                           |
|---|--------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                          |                                                                          | Min. Load 90%Duty/1KHz<br>(4) Dynamic Load Full Load/<br>Min. Load 90%Duty/3KHz<br>(5) Dynamic Load Full Load/<br>Min. Load 90%Duty/5KHz<br>(6) Dynamic Load 100% Load/<br>Min. Load 50%Duty/120Hz<br>(7) 0%→400% Load.<br>Ta:25°C                                                                                                                                   | (5) 530V<br>(6) 542V<br>(7) 526V                                                                                                                                          |
| 2 | Diode Peak Voltage       | Q100<br>Rated:<br>60A/120V                                               | AC ON/OFF<br>I/P: High-Line +3V =267 V<br>O/P: (1) Full Load<br>(2) Output Short<br>(3) Dynamic Load Full Load/<br>Min. Load 90%Duty/1KHz<br>(4) Dynamic Load Full Load/<br>Min. Load 90%Duty/3KHz<br>(5) Dynamic Load Full Load/<br>Min. Load 90%Duty/5KHz<br>(6) Dynamic Load 100% Load/<br>Min. Load 50%Duty/120Hz<br>(7) 0%→400% Load.<br>(8).NO LOAD<br>Ta:25°C | Q100:<br>VDS:<br>(1) 89.9V<br>(2) 89.1V<br>(3) 89.9V<br>(4) 89.1V<br>(5) 89.1V<br>(6) 89.1V<br>(7) 89.1V<br>(8) 89.1V                                                     |
| 3 | Input Capacitor Voltage  | C5<br>Rated:<br>120μ /400 V                                              | I/P: High-Line +3V =267V<br>O/P: (1) Full Load input on/off<br>(2) Min load input on /Off<br>(3) Full Load /Min load Change<br>(4) Full load continue<br>Ta:25°C                                                                                                                                                                                                     | (1) 393V<br>(2) 377V<br>(3) 377V<br>(4) 377V                                                                                                                              |
| 4 | Control IC Voltage Test  | PWM IC U3<br>Rated:<br>8V~ 26.5V<br><br>O/P IC U101<br>Rated:<br>4V~ 13V | AC ON/OFF<br>I/P: High-Line +3V =267 V<br>O/P:(1) FULL LOAD<br>(2) Output Short<br>(3) O.L.P<br>(4) NO LOAD VRmin (LOW LINE)<br>Ta:25°C                                                                                                                                                                                                                              | U3                      U101<br>(1) 16.3V              (1) 9.0V<br>(2) 16.3V              (2) 9.0V<br>(3) 16.7V              (3) 9.0V<br>(4) 8.4V                (4) 8.9V |
| 5 | Clamp Diode Peak Voltage | D5<br>Rated :<br>600V/1A                                                 | AC ON/OFF<br>I/P : High-Line +3V = 267 V<br>O/P : (1) Dynamic Load<br>90%Duty/1KHz<br>(2) Full load continue<br>Ta : 25°C                                                                                                                                                                                                                                            | (1) 476V<br>(2) 473V                                                                                                                                                      |



## ■ SAFETY& E.M.C. TEST

### SAFETY TEST

| NO | TEST ITEM            | SPECIFICATION        | TEST CONDITION                   | RESULT                      |
|----|----------------------|----------------------|----------------------------------|-----------------------------|
| 1  | WITHSTAND VOLTAGE    | I/P-O/P: 4KVAC/min   | I/P-O/P: 4.4 KVAC/min<br>Ta:25°C | I/P-O/P:1.67mA<br>NO DAMAGE |
| 2  | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ | I/P-O/P: 600 VDC<br>Ta:25°C      | I/P-O/P:50GΩ<br>NO DAMAGE   |

### E.M.C TEST

| NO | TEST ITEM                                                                                                                         | SPECIFICATION                                                                            | TEST CONDITION                                           | RESULT     |
|----|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|
| 1  | HARMONIC                                                                                                                          | BS EN/EN61000-3-2<br>■ CLASS A                                                           | I/P:230VAC/50HZ<br>O/P:FULL LOAD<br>Ta:25°C              | PASS       |
| 2  | CONDUCTION                                                                                                                        | BS EN/EN55032(CISPR32)/EN55011,<br>FCC Part15 ,<br>CNS15936, GB/T 9254.1-2021<br>CLASS B | I/P : 230 VAC (50HZ)<br>O/P : FULL/50% LOAD<br>Ta : 25°C | PASS       |
| 3  | RADIATION                                                                                                                         | BS EN/EN55032(CISPR32)/EN55011,<br>FCC Part15 ,<br>CNS15936, GB/T 9254.1-2021<br>CLASS B | I/P : 230 VAC (50HZ)<br>O/P : FULL LOAD<br>Ta : 25°C     | PASS       |
| 4  | E.S.D                                                                                                                             | BS EN/EN61000-4-2<br>Level 3, 15KV air; Level 2, 8KV contact                             | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C       | CRITERIA A |
| 5  | E.F.T                                                                                                                             | BS EN/EN 61000-4-4<br>INPUT : 1KV                                                        | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C       | CRITERIA A |
| 6  | SURGE                                                                                                                             | BS EN/EN 61000-4-5<br>Level 3, 1KV/L-N                                                   | I/P : 230 VAC/50HZ<br>O/P : FULL LOAD<br>Ta : 25°C       | CRITERIA A |
| 7  | Test by certified Lab & Test Report Prepare<br>Any contradictions of the test results, please refer to the latest EMC test report |                                                                                          |                                                          |            |



## ■ RELIABILITY TEST

### ENVIRONMENT TEST

| NO | TEST ITEM                       | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TEST CONDITION                                     | RESULT    |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
|----|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------|----|----------|------------------------|------------------------|---|-----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|-----|--------|--------|---|----|--------|--------|---|----|--------|--------|---|------|--------|--------|---|------|--------|--------|---|------|--------|--------|----|------|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|------|--------|--------|----|----|--------|--------|----|-----|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|----|--------|--------|----|------|--------|--------|----|-----|--------|--------|----|----|--------|--------|----|----|--------|--------|----|----|--------|--------|----|-----|--------|--------|----|--------|--------|--------|----|--------|--------|--------|----|----|--------|--------|
| 1  | TEMPERATURE RISE TEST           | <div>MODEL : NGE65U15-P1J</div> <div>1. ROOM AMBIENT BURN-IN : 2 HRS</div> <div>I/P : 230VAC O/P : FULL LOAD Ta= 28.3 °C</div> <div>2. HIGH AMBIENT BURN-IN : 2 HRS</div> <div>I/P : 230VAC O/P : FULL LOAD Ta=40.2 °C</div> <table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta=28.3°C</th><th>HIGH AMBIENT Ta=40.2°C</th></tr><tr><td>1</td><td>R42</td><td>70.3°C</td><td>70.3°C</td></tr><tr><td>2</td><td>U3</td><td>69.9°C</td><td>69.9°C</td></tr><tr><td>3</td><td>Q1</td><td>72.4°C</td><td>72.4°C</td></tr><tr><td>4</td><td>D42</td><td>70.1°C</td><td>70.1°C</td></tr><tr><td>5</td><td>U2</td><td>68.1°C</td><td>68.1°C</td></tr><tr><td>6</td><td>U1</td><td>60.0°C</td><td>60.0°C</td></tr><tr><td>7</td><td>Q101</td><td>79.5°C</td><td>79.5°C</td></tr><tr><td>8</td><td>C101</td><td>84.4°C</td><td>84.4°C</td></tr><tr><td>9</td><td>R101</td><td>86.0°C</td><td>86.0°C</td></tr><tr><td>10</td><td>U101</td><td>85.3°C</td><td>85.3°C</td></tr><tr><td>11</td><td>C105</td><td>66.6°C</td><td>66.6°C</td></tr><tr><td>12</td><td>C40</td><td>61.9°C</td><td>61.9°C</td></tr><tr><td>13</td><td>C106</td><td>69.5°C</td><td>69.5°C</td></tr><tr><td>14</td><td>C5</td><td>68.1°C</td><td>68.1°C</td></tr><tr><td>15</td><td>BD1</td><td>65.8°C</td><td>65.8°C</td></tr><tr><td>16</td><td>RTH2</td><td>72.9°C</td><td>72.9°C</td></tr><tr><td>17</td><td>LF2</td><td>61.6°C</td><td>61.6°C</td></tr><tr><td>18</td><td>C1</td><td>57.0°C</td><td>57.0°C</td></tr><tr><td>19</td><td>ZNR1</td><td>58.2°C</td><td>58.2°C</td></tr><tr><td>20</td><td>LF1</td><td>57.0°C</td><td>57.0°C</td></tr><tr><td>21</td><td>C8</td><td>74.3°C</td><td>74.3°C</td></tr><tr><td>22</td><td>R6</td><td>73.2°C</td><td>73.2°C</td></tr><tr><td>23</td><td>D5</td><td>82.8°C</td><td>82.8°C</td></tr><tr><td>24</td><td>R40</td><td>70.4°C</td><td>70.4°C</td></tr><tr><td>25</td><td>T1coil</td><td>78.3°C</td><td>78.3°C</td></tr><tr><td>26</td><td>T1core</td><td>73.7°C</td><td>73.7°C</td></tr><tr><td>27</td><td>C5</td><td>68.0°C</td><td>68.0°C</td></tr></table> |                                                    |           | NO | Position | ROOM AMBIENT Ta=28.3°C | HIGH AMBIENT Ta=40.2°C | 1 | R42 | 70.3°C | 70.3°C | 2 | U3 | 69.9°C | 69.9°C | 3 | Q1 | 72.4°C | 72.4°C | 4 | D42 | 70.1°C | 70.1°C | 5 | U2 | 68.1°C | 68.1°C | 6 | U1 | 60.0°C | 60.0°C | 7 | Q101 | 79.5°C | 79.5°C | 8 | C101 | 84.4°C | 84.4°C | 9 | R101 | 86.0°C | 86.0°C | 10 | U101 | 85.3°C | 85.3°C | 11 | C105 | 66.6°C | 66.6°C | 12 | C40 | 61.9°C | 61.9°C | 13 | C106 | 69.5°C | 69.5°C | 14 | C5 | 68.1°C | 68.1°C | 15 | BD1 | 65.8°C | 65.8°C | 16 | RTH2 | 72.9°C | 72.9°C | 17 | LF2 | 61.6°C | 61.6°C | 18 | C1 | 57.0°C | 57.0°C | 19 | ZNR1 | 58.2°C | 58.2°C | 20 | LF1 | 57.0°C | 57.0°C | 21 | C8 | 74.3°C | 74.3°C | 22 | R6 | 73.2°C | 73.2°C | 23 | D5 | 82.8°C | 82.8°C | 24 | R40 | 70.4°C | 70.4°C | 25 | T1coil | 78.3°C | 78.3°C | 26 | T1core | 73.7°C | 73.7°C | 27 | C5 | 68.0°C | 68.0°C |
| NO | Position                        | ROOM AMBIENT Ta=28.3°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HIGH AMBIENT Ta=40.2°C                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 1  | R42                             | 70.3°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70.3°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 2  | U3                              | 69.9°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 69.9°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 3  | Q1                              | 72.4°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 72.4°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 4  | D42                             | 70.1°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70.1°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 5  | U2                              | 68.1°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68.1°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 6  | U1                              | 60.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60.0°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 7  | Q101                            | 79.5°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 79.5°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 8  | C101                            | 84.4°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84.4°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 9  | R101                            | 86.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 86.0°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 10 | U101                            | 85.3°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 85.3°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 11 | C105                            | 66.6°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 66.6°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 12 | C40                             | 61.9°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 61.9°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 13 | C106                            | 69.5°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 69.5°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 14 | C5                              | 68.1°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68.1°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 15 | BD1                             | 65.8°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 65.8°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 16 | RTH2                            | 72.9°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 72.9°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 17 | LF2                             | 61.6°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 61.6°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 18 | C1                              | 57.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 57.0°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 19 | ZNR1                            | 58.2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 58.2°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 20 | LF1                             | 57.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 57.0°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 21 | C8                              | 74.3°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 74.3°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 22 | R6                              | 73.2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73.2°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 23 | D5                              | 82.8°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 82.8°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 24 | R40                             | 70.4°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 70.4°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 25 | T1coil                          | 78.3°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 78.3°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 26 | T1core                          | 73.7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73.7°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 27 | C5                              | 68.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68.0°C                                             |           |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 2  | OVER LOAD BURN-IN TEST          | NO DAMAGE<br>1 HOUR ( MIN )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | I/P : 230 VAC<br>O/P : 125%LOAD<br>Ta : 25°C       | TEST : OK |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |
| 3  | LOW TEMPERATURE<br>TURN ON TEST | TURN ON AFTER 2 HOUR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I/P : 264VAC/100VAC<br>O/P : 100%LOAD<br>Ta= -35°C | TEST : OK |    |          |                        |                        |   |     |        |        |   |    |        |        |   |    |        |        |   |     |        |        |   |    |        |        |   |    |        |        |   |      |        |        |   |      |        |        |   |      |        |        |    |      |        |        |    |      |        |        |    |     |        |        |    |      |        |        |    |    |        |        |    |     |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |      |        |        |    |     |        |        |    |    |        |        |    |    |        |        |    |    |        |        |    |     |        |        |    |        |        |        |    |        |        |        |    |    |        |        |



65W AC-DC Reliable Wall-mounted  
Interchangeable Type Green Adaptor

NGE65 series

|    |                                                                   |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                               |                                                                     |
|----|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 4  | HIGH HUMIDITY<br>HIGH TEMPERATURE<br>HIGH VOLTAGE<br>TURN ON TEST | AFTER 12 HOURS<br>IN CHAMBER ON<br>CONTROL 40°C/95 %R.H<br>NO DAMAGE                                                                                                                                                                                                  | I/P : 272 VAC<br>O/P : FULL LOAD<br>Ta= 40°C<br>HUMIDITY= 95 %R.H                                                                                                                                                                                                                                             | TEST : OK                                                           |
| 5  | TEMPERATURE<br>COEFFICIENT                                        | ±0.03%/°C(0~40°C)                                                                                                                                                                                                                                                     | I/P : 230 VAC<br>O/P : FULL LOAD                                                                                                                                                                                                                                                                              | ±0.0087%/°C(0~40°C)                                                 |
| 6  | STORAGE TEMPERATURE<br>TEST                                       | -20~85°C                                                                                                                                                                                                                                                              | 1. Thermal shock Temperature : -45°C~ +90°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 : STATIC                                                                                        |                                                                     |
| 7  | THERMAL SHOCK TEST                                                | -30~40°C                                                                                                                                                                                                                                                              | 1. Thermal shock Temperature : -35°C~ +45°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 : 16 CYCLE<br>5. Input/Output condition :<br>15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST<br>1cycle:230V/ FULL LOAD Burn In Test |                                                                     |
| 8  | VIBRATION TEST                                                    | 10 ~ 500Hz, 2G 10min./1cycle,<br>60min. each along X, Y, Z axes                                                                                                                                                                                                       | 1 Carton & 1 Set<br>(1) Waveform : Sine Wave<br>(2) Frequency : 10~500Hz<br>(3) Sweep Time : 10min/sweep cycle<br>(4) Acceleration : 3G<br>(5) Test Time : 180min in each axis (X.Y.Z)<br>(6) Ta : 25°C                                                                                                       |                                                                     |
| 9  | CAPACITOR<br>LIFE CYCLE                                           | SUPPOSE C106 IS THE MOST CRITICAL COMPONENT<br>(1) I/P : 230VAC O/P : FULL LOAD Ta= 25°C LIFE TIME<br>(2) I/P : 230VAC O/P : FULL LOAD Ta= 40°C LIFE TIME<br>(3) I/P : 230VAC O/P : 75% LOAD Ta= 40°C LIFE TIME<br>(4) I/P : 230VAC O/P : 50% LOAD Ta= 40°C LIFE TIME |                                                                                                                                                                                                                                                                                                               | (1) 48449.3HRS<br>(2) 19006.3HRS<br>(3) 71234HRS<br>(4) 197711.7HRS |
| 10 | MTBF                                                              | Conducted by Parts Stress Analysis Prediction<br>682.2 Khrs min. MIL-HDBK-217F (25°C) 5852.4 Khrs min.Telcordia TR/SR-332(Bellcore) (25°C)                                                                                                                            |                                                                                                                                                                                                                                                                                                               |                                                                     |
| 11 | Ongoing Reliability Test                                          | I/P : 230VAC O/P : FULL LOAD TA=50°C<br>Demonstration Mean Time Between Failure : 30,000 hours                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |                                                                     |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|--------|--------|----------|
| PASS        | Yuwei  | Liutt  | Wangdz   |

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