

Model : GS06x-4 6W  
V1 : +15V / 0.4A

AC-DC Single Output Wall-mount adaptor

**OUTPUT FUNCTION TEST**

| NO | TEST ITEM         | SPECICATION         | TEST CONDITION                                    | RESULT        | VERDICT |
|----|-------------------|---------------------|---|---------------|---------|
| 1  | RIPPLE & NOISE    | 100mVp-p (Typ)      | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C            | 10mVp-p       | P       |
| 2  | VOLTAGE TOLERANCE | -3% - +3% (Max)     | I/P:90VAC~264VAC<br>O/P:FULL-MIN. LOAD<br>Ta:25°C | -0% ~ +1.08%  | P       |
| 3  | LINE REGULATION   | -0.5% - +0.5% (Max) | I/P:90VAC ~264VAC<br>O/P:FULL LOAD<br>Ta:25°C     | -0% ~ +0%     | P       |
| 4  | LOAD REGULATION   | -3% - +3% (Max)     | I/P:230VAC<br>O/P:FULL -MIN LOAD<br>Ta:25°C       | -0.2% ~ +0.2% | P       |
| 5  | SET UP TIME       | 1000mS (Max)        | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C            | 638 mS        | P       |
| 6  | RISE TIME         | 50mS (Max)          | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C            | 4.38 mS       | P       |
| 7  | HOLD UP TIME      | 12mS (Min)          | I/P:115VAC<br>O/P:FULL LOAD<br>Ta:25°C            | 16.7 mS       | P       |

**INPUT FUNCTION TEST**

| NO | TEST ITEM       | SPECICATION                        | TEST CONDITION                                       | RESULT     | VERDICT |
|----|-----------------|------------------------------------|--|------------|---------|
| 1  | VOLTAGE RANGE   | 100VAC ~ 240VAC (Typ)              | I/P:TESTING<br>O/P:FULL LOAD<br>Ta:25°C              | 40V ~ 264V | P       |
| 2  | FREQUENCY RANGE | 50HZ - 60HZ (Typ)<br>NO DAMAGE OSC | I/P: 100VAC ~ 240VAC<br>O/P:FULL-MIN LOAD<br>Ta:25°C | TEST: OK   | P       |
| 3  | EFFICIENCY      | 77% (Typ)                          | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C               | 79.29%     | P       |
| 4  | AC CURRENT      | 0.2A (Max)                         | I/P: 100VAC<br>O/P:FULL LOAD<br>Ta:25°C              | 0.136A     | P       |
| 5  | NO LOAD POWER   | < 0.75W                            | I/P:230VAC<br>O/P: NO LOAD<br>Ta:25°C                | 0.5W       | P       |

|   |                 |                     |  |         |   |
|---|-----------------|---------------------|--|---------|---|
| 6 | INRUSH CURRENT  | < 50A<br>COLD START | I/P:230VAC<br>O/P:FULL LOAD<br>Ta:25°C | 44.1A   | P |
| 7 | LEAKAGE CURRENT | <0.25mA / 240VAC    | I/P:240VAC<br>O/P:Min LOAD<br>Ta:25°C  | 0.002mA | P |

**PROTECTION FUNCTION TEST**

| NO | TEST ITEM               | SPECICATION                            | TEST CONDITION                         | RESULT   | VERDICT |
|----|-------------------------|--|--|--|---------|
| 1  | OVER LOAD PROTECTION    | >120%                                  | I/P:230VAC<br>O/P:TESTING<br>Ta:25°C   | 358%<br>HICCUP MODE<br>RESET AUTO RECOVER      | P       |
| 2  | OVER VOLTAGE PROTECTION | >120%<br>CLAMP BY ZENER DIODE          | I/P:230VAC<br>O/P:MIN LOAD<br>Ta:25°C  | CLAMP BY ZENER DIODE                           | P       |
| 3  | SHORT PROTECTION        | SHORT EVERY OUTPUT<br>1 HOUR NO DAMAGE | I/P:264VAC<br>O/P:FULL LOAD<br>Ta:25°C | NO DAMAGE<br>HICCUP MODE<br>RESET AUTO RECOVER | P       |

**ENVIRONMENT TEST**

| NO | TEST ITEM             | SPECICATION   | TEST CONDITION | RESULT   | VERDICT |          |        |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
|----|-----------------------|---|----------------|--|---------|----------|--------|---|---|---|---|---|---|--------|--------------------------------|--------|--------|--------|--------|--------|---|----|--------------|--------|--------|--------|--------|--------|---|--------|-----------------------------------|--------|--------|--------|--------|--------|---|----|-------|--------|--------|--------|--------|--------|---|--------|--------------------------------|--------|--------|--------|--------|--------|---|--------|--------------------------------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|---|----|-------|--------|--------|--------|--------|--------|---|------|-------------|--------|--------|--------|--------|--------|--|
| 1  | TEMPERATURE RISE TEST | 1. ROOM AMBIENT BURN-IN : 4HRS<br>I/P:230VAC O/P:100% LOAD Ta=29.0°C<br>2. ROOM AMBIENT BURN-IN : 2HRS<br>I/P:115VAC O/P:100% LOAD Ta=29.0°C<br>3. ROOM AMBIENT BURN-IN : 2HRS<br>I/P:115VAC O/P:100% LOAD Ta=44.0°C<br>4. ROOM AMBIENT BURN-IN : 2HRS<br>I/P:230VAC O/P:100% LOAD Ta=44.5°C<br>5. ROOM AMBIENT BURN-IN : 6HRS<br>I/P:230VAC O/P:70% LOAD Ta=45.6°C |                |  |         | P        |        |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
|    |                       |   |                | <table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>P/N</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>VCC C5</td> <td>FuhYin 22uF/50V 105°C HFR 6*12</td> <td>63.3°C</td> <td>62.0°C</td> <td>77.1°C</td> <td>78.8°C</td> <td>73.9°C</td> </tr> <tr> <td>2</td> <td>Q1</td> <td>U1N60 TO-251</td> <td>78.7°C</td> <td>76.2°C</td> <td>91.5°C</td> <td>94.3°C</td> <td>83.3°C</td> </tr> <tr> <td>3</td> <td>I/P C1</td> <td>FuhYin 4.7uF/400V 105°C HFR 10*13</td> <td>59.7°C</td> <td>60.8°C</td> <td>75.0°C</td> <td>74.8°C</td> <td>69.9°C</td> </tr> <tr> <td>4</td> <td>D1</td> <td>SZ644</td> <td>60.5°C</td> <td>63.1°C</td> <td>77.3°C</td> <td>75.5°C</td> <td>70.4°C</td> </tr> <tr> <td>5</td> <td>O/P C8</td> <td>CapXon 330uF/25V 105°C KF 8*16</td> <td>58.2°C</td> <td>57.5°C</td> <td>73.0°C</td> <td>74.6°C</td> <td>70.4°C</td> </tr> <tr> <td>6</td> <td>O/P C9</td> <td>CapXon 330uF/25V 105°C KF 8*16</td> <td>51.5°C</td> <td>51.2°C</td> <td>66.8°C</td> <td>68.1°C</td> <td>65.6°C</td> </tr> <tr> <td>7</td> <td>O/P D4</td> <td>UF206G</td> <td>74.9°C</td> <td>73.8°C</td> <td>88.5°C</td> <td>90.5°C</td> <td>82.0°C</td> </tr> <tr> <td>8</td> <td>T1</td> <td>EE-17</td> <td>76.4°C</td> <td>74.2°C</td> <td>89.0°C</td> <td>91.8°C</td> <td>82.2°C</td> </tr> <tr> <td>9</td> <td>CASE</td> <td>UPON CERTER</td> <td>49.4°C</td> <td>49.1°C</td> <td>64.0°C</td> <td>65.3°C</td> <td>64.1°C</td> </tr> </tbody> </table> | NO      | Position | P/N    | 1 | 2 | 3 | 4 | 5 | 1 | VCC C5 | FuhYin 22uF/50V 105°C HFR 6*12 | 63.3°C | 62.0°C | 77.1°C | 78.8°C | 73.9°C | 2 | Q1 | U1N60 TO-251 | 78.7°C | 76.2°C | 91.5°C | 94.3°C | 83.3°C | 3 | I/P C1 | FuhYin 4.7uF/400V 105°C HFR 10*13 | 59.7°C | 60.8°C | 75.0°C | 74.8°C | 69.9°C | 4 | D1 | SZ644 | 60.5°C | 63.1°C | 77.3°C | 75.5°C | 70.4°C | 5 | O/P C8 | CapXon 330uF/25V 105°C KF 8*16 | 58.2°C | 57.5°C | 73.0°C | 74.6°C | 70.4°C | 6 | O/P C9 | CapXon 330uF/25V 105°C KF 8*16 | 51.5°C | 51.2°C | 66.8°C | 68.1°C | 65.6°C | 7 | O/P D4 | UF206G | 74.9°C | 73.8°C | 88.5°C | 90.5°C | 82.0°C | 8 | T1 | EE-17 | 76.4°C | 74.2°C | 89.0°C | 91.8°C | 82.2°C | 9 | CASE | UPON CERTER | 49.4°C | 49.1°C | 64.0°C | 65.3°C | 64.1°C |  |
| NO | Position              | P/N   | 1              | 2  | 3       | 4        | 5      |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 1  | VCC C5                | FuhYin 22uF/50V 105°C HFR 6*12  | 63.3°C         | 62.0°C   | 77.1°C  | 78.8°C   | 73.9°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 2  | Q1                    | U1N60 TO-251  | 78.7°C         | 76.2°C   | 91.5°C  | 94.3°C   | 83.3°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 3  | I/P C1                | FuhYin 4.7uF/400V 105°C HFR 10*13   | 59.7°C         | 60.8°C   | 75.0°C  | 74.8°C   | 69.9°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 4  | D1                    | SZ644   | 60.5°C         | 63.1°C   | 77.3°C  | 75.5°C   | 70.4°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 5  | O/P C8                | CapXon 330uF/25V 105°C KF 8*16  | 58.2°C         | 57.5°C   | 73.0°C  | 74.6°C   | 70.4°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 6  | O/P C9                | CapXon 330uF/25V 105°C KF 8*16  | 51.5°C         | 51.2°C   | 66.8°C  | 68.1°C   | 65.6°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 7  | O/P D4                | UF206G  | 74.9°C         | 73.8°C   | 88.5°C  | 90.5°C   | 82.0°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 8  | T1                    | EE-17   | 76.4°C         | 74.2°C   | 89.0°C  | 91.8°C   | 82.2°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |
| 9  | CASE                  | UPON CERTER   | 49.4°C         | 49.1°C   | 64.0°C  | 65.3°C   | 64.1°C |   |   |   |   |   |   |        |                                |        |        |        |        |        |   |    |              |        |        |        |        |        |   |        |                                   |        |        |        |        |        |   |    |       |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |                                |        |        |        |        |        |   |        |        |        |        |        |        |        |   |    |       |        |        |        |        |        |   |      |             |        |        |        |        |        |  |

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

| NO | TEST ITEM            | SPECICATION   | TEST CONDITION                                | RESULT                      | VERDICT |
|----|----------------------|---|---|-----------------------------|---------|
| 1  | SAFETY STANDARDS     | TUV: Certificate NO : S 50064872<br>UL: File NO : E206808 |   |                             | P       |
| 2  | HARMONIC             | IEC61000-3-2<br>CLASS A                                   | I/P:230VAC / 50HZ<br>O/P:FULL LOAD<br>Ta:25°C | PASS                        | P       |
| 3  | CONDUCTION           | EN55022<br>CLASS B  | I/P:230VAC (50HZ)<br>O/P:FULL LOAD<br>Ta:25°C | PASS                        | P       |
| 4  | RADIATION            | EN55022<br>CLASS B  | I/P:230VAC (50HZ)<br>O/P:FULL LOAD<br>Ta:25°C | PASS                        | P       |
| 5  | E.S.D                | IEC61000-4-2<br>LIGHT INDUSTRY<br>AIR:8KV / Contact:4KV   | I/P:230VAC/50HZ<br>O/P:FULL LOAD<br>Ta:25°C   | CRITERIA A                  | P       |
| 6  | E.F.T                | IEC61000-4-4<br>LIGHT INDUSTRY<br>INPUT: 1KV              | I/P:230VAC/50HZ<br>O/P:FULL LOAD<br>Ta:25°C   | CRITERIA A                  | P       |
| 7  | SURGE                | IEC61000-4-5<br>LIGHT INDUSTRY<br>L-N :1KV                | I/P:230VAC/50HZ<br>O/P:FULL LOAD<br>Ta:25°C   | CRITERIA A                  | P       |
| 8  | WITHSTAND VOLTAGE    | I/P-O/P:4242VDC/min                                       | I/P-O/P:4242VDC/min<br>Ta:25°C                | I/P-O/P:0.02mA<br>NO DAMAGE | P       |
| 9  | ISOLATION RESISTANCE | I/P-O/P:500VDC>50MΩ                                       | I/P-O/P:500VDC<br>Ta:25°C                     | I/P-O/P:>100MΩ<br>NO DAMAGE | P       |

**OTHER**

| NO | TEST ITEM               | SPECICATION   | TEST CONDITION | RESULT | VERDICT |
|----|-------------------------|---|----------------|--------|---------|
| 1  | CAPACITOR<br>LIFE CYCLE | SUPPOSE C9 IS THE MOST CRITICAL COMPONENT<br>I/P:230 VAC O/P:FULL LOAD Ta=25°C LIFE TIME=101473HRS<br>I/P:230 VAC O/P:FULL LOAD Ta=40°C LIFE TIME=33706HRS<br>I/P:230 VAC O/P:70% LOAD Ta=50°C LIFE TIME=24335HRS |                |        | P       |
| 2  | MTBF                    | MIL-HDBK-217F NOTICES2 PARTS COUNT<br>TOTAL FAILURE RATE: 1.850090<br>M.T.B.F: 540514HRS  |                |        | P       |

| DATE      | SAMPLE  | TEST RESULT | TESTER    | APPROVAL |
|-----------|---------|-------------|-----------|----------|
| 2007.1.23 | GS06x-4 | PASS        | T.K.CHENG | MAX LIN  |