

Model : GS06x-1 5W  
V1 : +5V / 1.0A

AC-DC Single Output Wall-mount adaptor

**OUTPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	50mVp-p (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	8mVp-p	P
2	VOLTAGE TOLERANCE	-5% - +5% (Max)	I/P:90VAC~264VAC O/P:FULL~MIN. LOAD Ta:25°C	-0% ~ +3.86.%	P
3	LINE REGULATION	-0.5% - +0.5% (Max)	I/P:90VAC ~264VAC O/P:FULL LOAD Ta:25°C	-0% ~ +0%	P
4	LOAD REGULATION	-5% - +5% (Max)	I/P:230VAC O/P:FULL ~MIN LOAD Ta:25°C	-1.47% ~ +1.21%	P
5	SET UP TIME	1000mS (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	837mS	P
6	RISE TIME	50mS (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	8.2mS	P
7	HOLD UP TIME	12mS (Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	13.7 ms	P

**INPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE	100VAC ~ 240VAC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	60V ~ 264V	P
2	FREQUENCY RANGE	50HZ - 60HZ (Typ) NO DAMAGE OSC	I/P: 100VAC ~ 240VAC O/P:FULL~MIN LOAD Ta:25°C	TEST: OK	P
3	EFFICIENCY	67% (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	68.7%	P
4	AC CURRENT	0.2A (Max)	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.13A	P
5	NO LOAD POWER	< 0.75W	I/P:230VAC O/P: NO LOAD Ta:25°C	0.4W	P

6	INRUSH CURRENT	< 50A COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	44.0A	P
7	LEAKAGE CURRENT	<0.25mA / 240VAC	I/P:240VAC O/P:Min LOAD 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 O/P:TESTING Ta:25°C	128% HICCUP MODE RESET AUTO RECOVER	P
2	OVER VOLTAGE PROTECTION	>120% CLAMP BY ZENER DIODE	I/P:230VAC O/P:MIN LOAD Ta:25°C	CLAMP BY ZENER DIODE	P
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:264VAC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE RESET AUTO RECOVER	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT																																																																																
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 4HRS I/P:230VAC O/P:100% LOAD Ta=29.0°C 2. ROOM AMBIENT BURN-IN : 2HRS I/P:115VAC O/P:100% LOAD Ta=29.0°C 3. ROOM AMBIENT BURN-IN : 2HRS I/P:115VAC O/P:100% LOAD Ta=44.0°C 4. ROOM AMBIENT BURN-IN : 2HRS I/P:230VAC O/P:100% LOAD Ta=44.5°C 5. ROOM AMBIENT BURN-IN : 6HRS 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>66.2°C</td> <td>65.1°C</td> <td>80.1°C</td> <td>81.9°C</td> <td>76.8°C</td> </tr> <tr> <td>2</td> <td>Q1</td> <td>U1N60 TO-251</td> <td>81.7°C</td> <td>79.8°C</td> <td>93.5°C</td> <td>96.0°C</td> <td>86.8°C</td> </tr> <tr> <td>3</td> <td>I/P C1</td> <td>FuhYin 4.7uF/400V 105°C HFR 10*13</td> <td>62.3°C</td> <td>64.0°C</td> <td>77.8°C</td> <td>77.7°C</td> <td>72.9°C</td> </tr> <tr> <td>4</td> <td>D1</td> <td>SZ663</td> <td>66.4°C</td> <td>69.0°C</td> <td>82.0°C</td> <td>81.3°C</td> <td>75.3°C</td> </tr> <tr> <td>5</td> <td>O/P C8</td> <td>Ltec 68uF/10V 105°C LZG 8*12.5</td> <td>71.2°C</td> <td>70.8°C</td> <td>86.0°C</td> <td>87.6°C</td> <td>79.0°C</td> </tr> <tr> <td>6</td> <td>O/P C9</td> <td>Ltec 68uF/10V 105°C LZG 8*12.5</td> <td>58.1°C</td> <td>58.1°C</td> <td>74.4°C</td> <td>75.5°C</td> <td>70.5°C</td> </tr> <tr> <td>7</td> <td>O/P D4</td> <td>31DQ 04</td> <td>78.0°C</td> <td>77.3°C</td> <td>92.1°C</td> <td>93.6°C</td> <td>83.9°C</td> </tr> <tr> <td>8</td> <td>T1</td> <td>EE-17</td> <td>78.0°C</td> <td>76.9°C</td> <td>90.4°C</td> <td>92.3°C</td> <td>83.1°C</td> </tr> <tr> <td>9</td> <td>CASE</td> <td>UPON CERTER</td> <td>57.3°C</td> <td>56.6°C</td> <td>72.3°C</td> <td>73.8°C</td> <td>71.2°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	66.2°C	65.1°C	80.1°C	81.9°C	76.8°C	2	Q1	U1N60 TO-251	81.7°C	79.8°C	93.5°C	96.0°C	86.8°C	3	I/P C1	FuhYin 4.7uF/400V 105°C HFR 10*13	62.3°C	64.0°C	77.8°C	77.7°C	72.9°C	4	D1	SZ663	66.4°C	69.0°C	82.0°C	81.3°C	75.3°C	5	O/P C8	Ltec 68uF/10V 105°C LZG 8*12.5	71.2°C	70.8°C	86.0°C	87.6°C	79.0°C	6	O/P C9	Ltec 68uF/10V 105°C LZG 8*12.5	58.1°C	58.1°C	74.4°C	75.5°C	70.5°C	7	O/P D4	31DQ 04	78.0°C	77.3°C	92.1°C	93.6°C	83.9°C	8	T1	EE-17	78.0°C	76.9°C	90.4°C	92.3°C	83.1°C	9	CASE	UPON CERTER	57.3°C	56.6°C	72.3°C	73.8°C	71.2°C	
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**SAFETY & E.M.C TEST**

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

**OTHER**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C9 IS THE MOST CRITICAL COMPONENT I/P:230 VAC O/P:FULL LOAD Ta=25°C LIFE TIME=68685HRS I/P:230 VAC O/P:FULL LOAD Ta=40°C LIFE TIME=22815HRS I/P:230 VAC O/P:70% LOAD Ta=50°C LIFE TIME=22345HRS			P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 1.850090 M.T.B.F: 540514HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2007.1.23	GS06x-1	PASS	T.K.CHENG	MAX LIN