

Model : GS15x - 4 15W
+15V / 1.0A

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 O/P:FULL LOAD Ta:25°C | 20mVp-p | P |
| 2 | VOLTAGE TOLERANCE | -3% - +3% (Max) | I/P:90VAC~264VAC O/P:FULL~MIN. LOAD Ta:25°C | -0.1% ~ +1.3% | 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 | -3% - +3% (Max) | I/P:230VAC O/P:FULL ~MIN LOAD Ta:25°C | -0.7% ~ +0.7% | P |
| 5 | SET UP TIME | 3000mS (Max) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 680mS | P |
| 6 | RISE TIME | 50mS (Max) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 5.15mS | P |
| 7 | HOLD UP TIME | 16mS (Min) | I/P:115VAC O/P:FULL LOAD Ta:25°C | 22.0 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 | 43.8V ~ 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 | 77% (Typ) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 78.3% | P |
| 4 | AC CURRENT | 0.5A (Max) | I/P: 100VAC O/P:FULL LOAD Ta:25°C | 0.34A | P |
| 5 | NO LOAD POWER | < 1W | I/P:230VAC O/P: NO LOAD Ta:25°C | 0.5W | P |

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|---|----------------------|---|---|-----------------------------|---|
| 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=42870Hrs I/P:230 VAC O/P:FULL LOAD Ta=40°C LIFE TIME=21885Hrs I/P:230 VAC O/P:70% LOAD Ta=50°C LIFE TIME=26390Hrs | | | P |
| 2 | MTBF | MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 1.702642 M.T.B.F: 587322HRS | | | P |

| DATE | SAMPLE | TEST RESULT | TESTER | APPROVAL |
|-----------|---------|-------------|-----------|----------|
| 2007.4.17 | GS15x-4 | PASS | T.K.CHENG | MAX LIN |