



Test Report : SGAS15x15

15W AC-DC High Reliable Extreme Small Wall-mounted Industrial Adaptor

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

■ SAFETY TEST

Safety Test

■ RELIABILITY TEST

Other test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|-------------------|---------------------|---|-----------------|
| 1 | RIPPLE & NOISE | 80mVp-p (Max) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 35 mVp-p |
| 2 | VOLTAGE TOLERANCE | -3% ~ +3% (Max) | I/P:90VAC~264VAC O/P:FULL~MIN. LOAD Ta:25°C | +4.16% ~ +0.14% |
| 3 | LINE REGULATION | -0.5% ~ +0.5% (Max) | I/P:90VAC ~264VAC O/P:FULL LOAD Ta:25°C | -0.03% ~ +0.00% |
| 4 | LOAD REGULATION | -3% ~ +3% (Max) | I/P:230VAC O/P:FULL ~MIN LOAD Ta:25°C | -1.20% ~ +1.48% |
| 5 | SET UP TIME | 3000 mS (Max) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 565.727 mS |
| 6 | RISE TIME | 50 mS (Max) | I/P:230VAC O/P:FULL LOAD Ta:25°C | 30.106 mS |
| 7 | HOLD UP TIME | 10 mS (Min) | I/P:115VAC O/P:FULL LOAD Ta:25°C | 20.19 mS |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|---------------------------|---|--|------------------------------------|
| 1 | VOLTAGE RANGE | 90VAC ~ 264VAC | I/P:TESTING O/P:FULL LOAD Ta:25°C | 52.6V ~ 264V |
| 2 | FREQUENCY RANGE | 50HZ - 60HZ (Typ) NO DAMAGE OSC | I/P: 100VAC ~ 240VAC O/P:FULL~MIN LOAD Ta:25°C | TEST: OK |
| 3 | EFFICIENCY | 85% | I/P:230VAC O/P:FULL LOAD Ta:25°C | 85.11% |
| 4 | AVERAGE EFFICIENCY | 84.13% (LEVEL VI) 84.05% (LEVEL 5) | I/P:115/230VAC O/P:25%、50%、75%、100% LOAD Ta:25°C | 86.38% (115VAC) 86.04% (230VAC) |
| 5 | AC CURRENT | 0.4A (Max) | I/P: 100VAC O/P:FULL LOAD Ta:25°C | 0.375 A |
| 6 | NO LOAD POWER CONSUMPTION | < 0.075W (Max) | I/P:230VAC O/P: NO LOAD Ta:25°C | 0.0545 W |

| | | | | |
|---|-----------------|--------------------|--|------------------------------|
| 7 | INRUSH CURRENT | <50A COLD START | I/P:230VAC O/P:FULL LOAD Ta:25°C | 45.765 A |
| 8 | LEAKAGE CURRENT | < 0.25mA | I/P:240VAC O/P:Min LOAD Ta:25°C | L-FG: 0.02mA N-FG: 0.02mA |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|-------------------------|----------------------------------|--|--|
| 1 | OVER LOAD PROTECTION | 105% ~ 250% | I/P:230VAC O/P:TESTING Ta:25°C | 143.0% HICCUP MODE RESET : AUTO RECOVER |
| 2 | OVER VOLTAGE PROTECTION | >120% | I/P:230VAC O/P:MIN LOAD Ta:25°C | 133% (MMSZ5249BF) Clamp by ZENER diode |
| 3 | SHORT PROTECTION | SHORT OUTPUT 1 HOUR NO DAMAGE | I/P:264VAC O/P:FULL LOAD Ta:25°C | NO DAMAGE HICCUP MODE RESET AUTO RECOVER |

■ SAFETY TEST

SAFETY TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|----------------------|----------------------|---------------------------------|------------------------------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P:4242 VDC/min | I/P-O/P:4242 VDC/min Ta:25°C | I/P-O/P: 0.03uA NO DAMAGE |
| 2 | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ | I/P-O/P:500 VDC Ta:25°C | I/P-O/P>100MΩ NO DAMAGE |

■ RELIABILITY TEST

OTHER

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT |
|----|-----------|---|----------------|--------|
| 1 | MTBF | MIL-KDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE : 1.985044 M.T.B.F : 503767.17 HRS | | |

| TEST RESULT | TESTER | APPROVAL |
|-------------|--------------|-------------|
| PASS | ARCHEN HSIAO | PETER CHENG |