

Model : A301-2K5-F3 2500W

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|-----------------------|------------------------|--|---------------------|---------|
| 1 | AC VOLTAGE | 230VAC \pm 10% (Typ) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 227VAC | P |
| 2 | AC VOLTAGE REGULATION | 230VAC \pm 10% (Typ) | I/P:11VDC-15VDC O/P:FULL-MIN. LOAD Ta:25°C | 221-229VAC | P |
| 3 | AC WAVEFORM | MODEFIED SINE WAVE | I/P:12VDC O/P:FULL LOAD Ta:25°C | MODEIFIED SINE WAVE | P |
| 4 | AC FREQUENCY | 50Hz \pm 1% | I/P:12VDC O/P:MIN LOAD Ta:25°C | 50.01Hz | P |
| 5 | CONTINUOUS POWER | 2500W (Max) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 2500W (60mins) | P |
| 6 | SURGE POWER | 5000W (Min) | I/P:12VDC O/P:TESTING Ta:25°C | 7920W | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|----------------------------|---|-------------|---------|
| 1 | DC VOLTAGE RANGE | 10VDC ~ 15VDC (Typ) | I/P: TESTING O/P:MIN LOAD Ta:25°C | 9.5-15.4VDC | P |
| 2 | EFFICIENCY | 90% (Typ) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 91.2% | P |
| 3 | NO LOAD CURRENT DRAW | 0. 9A (Max) WITHOUT FAN | I/P: 12VDC O/P:NO LOAD Ta:25°C | 0.86A | P |
| 4 | DC INPUT CURRENT | 250A (Typ) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 243A | P |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------|-------------|--|---------|---------|
| 1 | BAT. LOW ALARM | 10-11VDC | I/P:TESTING O/P:50% LOAD Ta:25°C | 10.1VDC | P |

| | | | | | |
|---|-----------------------------|---------------|--|---|---|
| 2 | BAT. LOW SHUTDOWN | 9.5-10.5VDC | I/P:TESTING O/P:50% LOAD Ta:25°C | 9.5VDC SHUTDOWN RESET:AUTO-RECOVER | P |
| 3 | INPUT POLARITY REVERSE | FUSE OPEN | I/P:TESTING O/P:NO LOAD Ta:25°C | OK | P |
| 4 | OVER LOAD PROTECTION | >2700W | I/P:12VDC O/P:TESTING Ta:25°C | 3200W SHUTDOWN RESET: RE POWER ON | P |
| 5 | OVER VOLTAGE PROTECTION | 15-17VDC(Max) | I/P:TESTING O/P:NO LOAD Ta:25°C | 15.4VDC SHUTDOWN RESET:AUTO-RECOVER | P |
| 6 | OUTPUT SHORT PROTECTION | YES | I/P:12VDC O/P:SHORT Ta:25°C | 開機短路 OK 短路開機 OK SHUTDOWN RESET:RE POWER ON | P |
| 7 | OVER TEMPERATURE PROTECTION | 55°C ~ 65°C | I/P:12VDC O/P:FULL LAOD Ta:25°C | 59°C (THERMO IC) SHUTDOWN RESET:AUTO-RECOVER | P |
| 8 | FAN CONTROL | 40°C FAN ON | I/P:12VDC O/P:TESTING Ta:25°C | 39°C (THERMO IC) | P |

CONTROL FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------|------------------|---------------------------------------|---------|---------|
| 1 | REMOTE CONTROL | ON / OFF CONTROL | I/P:12VDC O/P:FULL LOAD Ta:25°C | TEST OK | P |

ENVIRONMENT TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|-----------------------|--|----------------|--------|---------|
| 1 | TEMPERATURE RISE TEST | 1. ROOM AMBIENT BURN-IN : 1HR I/P:12VDC O/P:2500W Ta=25°C | | | P |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



OTHER

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|-------------------------|--|----------------|--------|---------|
| 1 | CAPACITOR LIFE CYCLE | SUPPOSE C14 IS THE MOST CRITICAL COMPONENT I/P: 12VDC O/P: FULL LOAD Ta=25°C LIFE TIME=39124Hrs | | | P |
| 2 | MTBF | MIL-HDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE: 26.521802 M.T.B.F : 37704HRS | | | P |

| DATE | SAMPLE | TEST RESULT | TESTER | APPROVAL |
|-----------|--------------|-------------|-----------|----------|
| 2004.9.27 | A-301-2K5-F3 | PASS | T.K.CHENG | MAX LIN |