



Model : A-301-1K7-F3 1500W

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	219.5VAC	P
2	AC VOLTAGE REGULATION	230VAC \pm 10% (Typ)	I/P:11VDC-15VDC O/P:FULL-MIN. LOAD Ta:25°C	219.5-228.9VAC	P
3	AC WAVEFORM	MODIFIED SINE WAVE	I/P:12VDC O/P:FULL LOAD Ta:25°C	MODIFIED SINE WAVE	P
4	AC FREQUENCY	50Hz \pm 1% (Typ)	I/P:12VDC O/P:MIN LOAD Ta:25°C	50.006Hz	P
5	CONTINUOUS POWER	1500W 1700W(30min)	I/P:12VDC O/P:FULL LOAD Ta:25°C	1580W (60mins)	P
6	SURGE POWER	3000W	I/P:12VDC O/P:TESTING Ta:25°C	13685W	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	9.42-15.5VDC	P
2	EFFICIENCY	82% (TYP)	I/P:12VDC O/P:FULL LOAD Ta:25°C	85.8%	P
3	NO LOAD CURRENT DRAW	0. 6A (Max) WITHOUT FAN	I/P: 12VDC O/P:NO LOAD Ta:25°C	0.58A	P
4	DC INPUT CURRENT	170A (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	160A	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	BAT. LOW ALARM	9.5-10.5VDC	I/P:TESTING O/P:50% LOAD Ta:25°C	9.9VDC	P
2	BAT. LOW SHUTDOWN	9.0-10.0VDC	I/P:TESTING O/P:50% LOAD Ta:25°C	9.42VDC SHUT DOWN AUTO-RECOVER	P

3	INPUT POLARITY REVERSE	FUSE OPEN	I/P:TESTING O/P:NO LOAD Ta:25°C	FUSE OPEN RESET REPLACEMENT FUSE	P
4	OVER LOAD PROTECTION	>1700W	I/P:12VDC O/P:TESTING Ta:25°C	1740W SHUT DOWN RESET: RE-POWER ON	P
5	OVER VOLTAGE PROTECTION	15-16VDC(Max)	I/P:TESTING O/P:NO LOAD Ta:25°C	15.5VDC SHUT DOWN RESET: AUTO-RECOVER	P
6	OUTPUT SHORT PROTECTION	YES	I/P:12VDC O/P:SHORT Ta:25°C	OK SHUT DOWN RESET: RE-POWER ON	P
7	OVER TEMPERATURE PROTECTION	55°C ~ 65°C (TYP)	I/P:12VDC O/P:FULL LAOD Ta:25°C	52.9°C SHUT DOWN RESET AUTO-RECOVER	P
8	FAN CONTROL	>40°C FAN ON	I/P:12VDC O/P:TESTING Ta:25°C	44.2°C 42.4°C FAN OFF	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	YES	I/P:12VDC O/P:FULL LOAD Ta:25°C	YES	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:1500W Ta=25°C			P



OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C66 IS THE MOST CRITICAL COMPONENT I/P: 12VDC O/P: FULL LOAD Ta=25°C LIFE TIME= 20252HRS			P
2	MTBF	MIL-HDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE: 11.573184 M.T.B.F : 86852HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.7.9	A-301-1K7-F3	PASS	T.K.CHENG	MAX LIN