



Model : A301-100-F3 100W

INPUT:10~15VDC
OUTPUT: 230VAC/50Hz

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	AC VOLTAGE	230VAC(Typ)	I/P:12VDC O/P: MIN LOAD Ta:25°C	226VAC	P
2	AC VOLTAGE REGULATION	-10%~+10% (Typ)	I/P:11VDC~15VDC O/P: MIN.~ FULL LOAD Ta:25°C	-11%~+3.9%	P
3	AC WAVEFORM	MODEFIED SINE WAVE	I/P:12VDC O/P: MIN LOAD Ta:25°C	MODEIFIED SINE WAVE	P
4	AC FREQUENCY	50±1% Hz	I/P:12VDC O/P:MIN LOAD Ta:25°C	0.01%	P
5	CONTINUOUS POWER	100W	I/P:12VDC O/P:FULL LOAD Ta:25°C	2HRS OK	P
6	SURGE POWER	200W (Min.)	I/P:12VDC O/P:TESTING Ta:25°C	OK	P
7	USB POWER	5V / 500mA (Max)	I/P:12VDC O/P:TESTING Ta:25°C	5.10V (NO LOAD)	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	9.6~15.4VDC	P
2	EFFICIENCY	90% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	90.5%	P
3	NO LOAD CURRENT DRAW	0.25A (Max)	I/P: 12VDC O/P:NO LOAD Ta:25°C	0.24A	P
4	DC INPUT CURRENT	15A (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	10.145A	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	BAT. LOW ALARM	NONE	I/P:TESTING O/P:50% LOAD Ta:25°C	-----	N
2	BAT. LOW SHUTDOWN	9.5-10.5VDC	I/P:TESTING O/P:50% LOAD Ta:25°C	9.9VDC SHUT DOWN LED BRIGHT(ORANGE) 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	YES	I/P:12VDC O/P:TESTING Ta:25°C	240W SHUT DOWN LED SLOWLY SPARK RESET: RE-POWER ON	P
5	OVER VOLTAGE PROTECTION	15.0-17.0VDC	I/P:TESTING O/P:NO LOAD Ta:25°C	15.6VDC LED SPEEDY SPARK SHUT DOWN RESET: RE-POWER ON	P
6	OUTPUT SHORT PROTECTION	YES	I/P:12VDC O/P:SHORT Ta:25°C	TEST OK LED SLOWLY SPARK SHUT DOWN RESET: RE-POWER ON	P
7	OVER TEMPERATURE PROTECTION	55°C ~ 65°C (CASE)	I/P:12VDC O/P:TESTING Ta:25°C	54.5°C LED SPEEDY SPARK SHUT DOWN RESET:RE-POWER ON	P



ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 3.5HRS I/P:12VDC O/P:100W Ta=25°C 2. ROOM AMBIENT BURN-IN : 2HRS I/P:12VDC O/P:60W+ USB 5V/500mA Ta=25°C			P

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE "C1" IS THE MOST CRITICAL COMPONENT I/P: 12VDC O/P:100W Ta=25°C LIFE TIME= 11080HRS (6hrs/day) I/P: 12VDC O/P:60W+ USB 5V/500mA Ta=25°C LIFE TIME= 12553HRS (24hrs/day)			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2008.6.20	Product Sample	PASS	PETER	T.K.CHENG