

Model : SPA02A-15 2W
 15V / 13~133mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2%	I/P:12VDC O/P:FULL LOAD Ta:25°C	0.21%	P
2	RIPPLE & NOISE	60mVp-p	I/P:12VDC O/P:FULL LOAD Ta:25°C	12.6mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25°C	-0.01%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:12VDC O/P:MIN-FULL LOAD Ta:25°C	-0.03%~+0.03%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	9VDC~18VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	6.5V~18Vdc	P
2	EFFICIENCY	80% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	83.30%	P
3	DC CURRENT	25 mA / NO LOAD 225 mA / FULL LOAD	I/P:12VDC O/P:NO / FULL LOAD Ta:25°C	17.0 mA / NO LOAD 200 mA / FULL LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	150% ~ 250% (Typ)	I/P:12VDC O/P:TESTING Ta:25°C	224% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:18VDC O/P:SHORT Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	POWER ON : R.C ~ Vin < 1VDC OR OPEN POWER OFF : R.C ~ Vin > 4VDC OR SHORT	I/P:12VDC O/P:FULL LOAD Ta:25°C	POWER ON : 0.5VDC OR OPEN POWER OFF : 2.7VDC OR SHORT	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT							
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 3HRS I/P:12VDC O/P:FULL LOAD Ta=29.6°C			P							
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Position</th> <th>CENTER</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SPA02A-15</td> <td>48.9°C</td> </tr> </tbody> </table>			Position	CENTER	1	CASE	SPA02A-15	48.9°C		
Position	CENTER	1										
CASE	SPA02A-15	48.9°C										
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:12VDC O/P: 100% LOAD Ta= -40°C	TEST : OK	P							

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/min Ta:25°C	I/P-O/P:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25°C	I/P-O/P:>100MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2007.7.31	PRODUCT SAMPLE	PASS	PETER	T.K.CHENG