

Model : SPA02A-12 2W  
 12V / 17~167mA

**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	0.26%	P
2	RIPPLE & NOISE	60mVp-p	I/P:12VDC O/P:FULL LOAD Ta:25°C	10mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25°C	-0.01%~+0.01%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:12VDC O/P:MIN-FULL LOAD Ta:25°C	-0.04%~+0.04%	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	7.7V~18Vdc	P
2	EFFICIENCY	80% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	83.27%	P
3	DC CURRENT	25 mA / NO LOAD 225 mA / FULL LOAD	I/P:12VDC O/P:NO / FULL LOAD Ta:25°C	12.0 mA / NO LOAD 202 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	198% 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 : 1.0VDC OR OPEN POWER OFF : 2.5VDC 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"> <tr> <td>Position</td> <td>CENTER</td> <td>1</td> </tr> <tr> <td>CASE</td> <td>SPA02A-12</td> <td>47.4°C</td> </tr> </table>		Position	CENTER	1	CASE	SPA02A-12	47.4°C			
Position	CENTER	1										
CASE	SPA02A-12	47.4°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