

Model : SPB03A-15 3W
15V / 20 ~ 200mA

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	1.08%	P
2	RIPPLE & NOISE	60mVp-p	I/P:12VDC O/P:FULL LOAD Ta:25°C	15mV	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	5.4V~18Vdc	P
2	EFFICIENCY	80% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	83.23%	P
3	DC CURRENT	40 mA / NO LOAD 340 mA / FULL LOAD	I/P:12VDC O/P:NO / FULL LOAD Ta:25°C	15.0 mA / NO LOAD 297 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	205% 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℃	POWER ON : 1.0VDC OR OPEN POWER OFF : 2.3VDC 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=30.1℃ <table><tr><td>Position</td><td>CENTER</td><td>1</td></tr><tr><td>CASE</td><td>SPB03A-15</td><td>54.0℃</td></tr></table>			Position	CENTER	1	CASE	SPB03A-15	54.0℃	P
Position	CENTER	1									
CASE	SPB03A-15	54.0℃									
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:12VDC O/P: 100% LOAD Ta= -40℃	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℃	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℃	I/P-O/P:>100MΩ NO DAMAGE	P

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