Model : SPB03A-05 3W
5V / 60~600mA

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℃	-0.84%	P
2	RIPPLE & NOISE	50mVp-p	I/P:12VDC O/P:FULL LOAD Ta:25℃	22mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25℃	-0.02%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:12VDC O/P:MIN~FULL LOAD Ta:25℃	-0.29%~+0.22%	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℃	5.6V~18Vdc	P
2	EFFICIENCY	73% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25℃	76.95%	P
3	DC CURRENT	40 mA / NO LOAD 340 mA / FULL LOAD	I/P:12VDC O/P:NO / FULL LOAD Ta:25℃	14.0 mA / NO LOAD 322 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℃	188.3% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:18VDC O/P:SHORT Ta:25℃	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 : 1.4VDC OR OPEN POWER OFF : 2.1VDC 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℃ Position: CENTER, 1 CASE: SPB03A-05, 60.3℃			P
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