Model : SPB03B-15 3W
15V / 20~200mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2%	I/P:24VDC O/P:FULL LOAD Ta:25℃	-0.82%	P
2	RIPPLE & NOISE	60mVp-p	I/P:24VDC O/P:FULL LOAD Ta:25℃	35.6mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:18VDC~36VDC O/P:FULL LOAD Ta:25℃	-0%~+0.01%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:24VDC O/P:MIN~FULL LOAD Ta:25℃	-0.04%~+0.04%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18VDC~36VDC	I/P:TESTING O/P:FULL LOAD Ta:25℃	9.1V~36Vdc	P
2	EFFICIENCY	80% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25℃	84.33%	P
3	DC CURRENT	20 mA / NO LOAD 165 mA / FULL LOAD	I/P:24VDC O/P:NO / FULL LOAD Ta:25℃	5.0 mA / NO LOAD 147 mA / FULL LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	150% ~ 250% (Typ)	I/P:24VDC O/P:TESTING Ta:25℃	218% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:36VDC 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:24VDC O/P:FULL LOAD Ta:25℃	POWER ON : 1.2VDC 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:24VDC O/P:FULL LOAD Ta=29.9℃ Position: CENTER, 1 CASE: SPB03B-15, 50.6℃			P
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:24VDC 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