

Model : SPB03B-05 3W
5V / 60~600mA

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°C	-1.24%	P
2	RIPPLE & NOISE	50mVp-p	I/P:24VDC O/P:FULL LOAD Ta:25°C	38.8mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:18VDC~36VDC O/P:FULL LOAD Ta:25°C	-0%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:24VDC O/P:MIN-FULL LOAD Ta:25°C	-0.29%~+0.23%	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°C	10.3V~36Vdc	P
2	EFFICIENCY	77% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	79.6%	P
3	DC CURRENT	20 mA / NO LOAD 165 mA / FULL LOAD	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	3.0 mA / NO LOAD 155 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°C	183% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:36VDC 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:24VDC O/P:FULL LOAD Ta:25°C	POWER ON : 1.4VDC OR OPEN POWER OFF : 1.9VDC 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°C			P					
		<table border="1"> <tr> <td>Position</td> <td>CENTER</td> <td>1</td> </tr> <tr> <td>CASE</td> <td>SPB03B-05</td> <td>52.7°C</td> </tr> </table>	Position	CENTER		1	CASE	SPB03B-05	52.7°C	
Position	CENTER	1								
CASE	SPB03B-05	52.7°C								
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:24VDC 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