

Model : SCW05A-12    5.6W    DC-DC    Single Output Converter  
 V1 : 12V / 47~470mA

## OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:12VDC O/P:50% LOAD Ta:25°C	-0.3%	P
2	RIPPLE & NOISE	100mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	20mV	P
3	LINE REGULATION	-0.2%~+0.2% (Max)	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25°C	-0.1%~+0.1%	P
4	LOAD REGULATION	-0.2%~+0.2% (Max)	I/P:12VDC O/P:MIN~FULL LOAD Ta:25°C	-0.1%~+0.1%	P

## INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	9VDC~18VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	6.2V~18V	P
2	EFFICIENCY	80% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	82.4%	P
3	DC CURRENT	587mA FULL LOAD (Max) 40mA NO LOAD (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	568.4mA 24.8mA	P

## PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:12VDC O/P:TESTING Ta:25°C	180% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:12VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 4HRS I/P:12VDC O/P:FULL LOAD Ta=25°C			P
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 1.5 HOURS	I/P:12VDC O/P: 100% LOAD Ta= -40°C	TEST : OK	P
3	HIGH TEMPERATURE BURN IN TEST	CONTROL Ta=71°C NO DAMAGE	I/P:12VDC O/P:FULL LOAD Ta=71°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:30GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.4.26	SCW05A-12	PASS	T.K.CHENG	MAX LIN