

Model : SPR01N-12 1W DC-DC Single Output Converter
 V1 : 12V / 0~84mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:24VDC O/P:50% LOAD Ta:25°C	+1.2%	P
2	RIPPLE & NOISE	100mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	10mV	P
3	LINE REGULATION	-1%~+1% (Max)	I/P:21.6VDC~26.4VDC O/P:FULL LOAD Ta:25°C	-1.0%~+0.4%	P
4	LOAD REGULATION	-1%~+1% (Max)	I/P:24VDC O/P:MIN~FULL LOAD Ta:25°C	-0%~+0%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	21.6VDC~26.4VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	20.4V~26.4V	P
2	EFFICIENCY	62% (Typ)	I/P:24 VDC O/P:FULL LOAD Ta:25°C	61.9%	P
3	DC CURRENT	67mA (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	67mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:24VDC O/P:TESTING Ta:25°C	116% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:24VDC 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:24VDC O/P:FULL LOAD Ta=25°C			P	
			Position	P/N		TEMP Ta=25°C
			CASE	SPR01N-12		41.2°C

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
2003.7.17	SPR01N-12	PASS	FRANK.CHEN	MAX LIN