

Model : SPR010-12 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:48VDC O/P:50% LOAD Ta:25°C	+0.8%	P
2	RIPPLE & NOISE	100mVp-p (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	13mV	P
3	LINE REGULATION	-1%~+1% (Max)	I/P:43.2VDC~52.8VDC O/P:FULL LOAD Ta:25°C	-0.3%~+0%	P
4	LOAD REGULATION	-1%~+1% (Max)	I/P:48VDC 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	43.2VDC~52.8VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	38.4~52.8V	P
2	EFFICIENCY	63% (Typ)	I/P:48VDC O/P:FULL LOAD Ta:25°C	62.6%	P
3	DC CURRENT	35mA (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	34mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:48VDC O/P:TESTING Ta:25°C	176% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:48VDC 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
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1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 39HRS I/P:48VDC O/P:FULL LOAD Ta=25°C				P
			Position	P/N	TEMP Ta=25°C	
			CASE	SPR010-12	40.5°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
2003.8.28	SPR010-12	PASS	FRANK.CHEN	MAX LIN