



Test Report : SKMW06G-15

6W 1"x1" Package DC-DC Regulated Converter

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

■ SAFETY TEST

Safety Test

■ RELIABILITY TEST

Other

DESIGN VERIFY TEST
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-1.0% ~ +1.0 %	I/P:48VDC O/P:FULL LOAD Ta:25°C	+0.51%	P
2	RIPPLE & NOISE	85 mVp-p (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	25mV	P
3	LINE REGULATION	-0.2% ~ +0.2%	I/P:18VDC~75VDC O/P:FULL LOAD Ta:25°C	-0.01% ~ +0.01%	P
4	LOAD REGULATION	-1.0% ~ +1.0%	I/P:48VDC O/P:5% LOAD~FULL LOAD Ta:25°C	-0.01% ~ +0.01%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18 VDC ~75 VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	14.84 VDC ~ 75.0 VDC	P
2	EFFICIENCY	86% (Typ)	I/P:48VDC O/P:FULL LOAD Ta:25°C	88.64%	P
3	DC CURRENT	155 mA / FULL LOAD) 3 mA / NO LOAD	I/P:48VDC O/P:NO / FULL LOAD Ta:25°C	142 mA / FULL LOAD 2.9 mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	SHORT PROTECTION	CONTINUOUS	I/P:75VDC O/P:FULL LOAD Ta:25°C	HICCUP MODE AUTO-RECOVER	P
2	OVER LOAD PROTECTION	110% ~ 190%	I/P:48VDC O/P:TESTING Ta:25°C	187.5% HICCUP MODE AUTO-RECOVER	P

SAFETY TEST
SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1.5K VDC/min	I/P-O/P:1.5K VDC/min Ta:25°C	I/P-O/P: 0.002mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500 VDC Ta:25°C	I/P-O/P>100MΩ NO DAMAGE	P

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-HDBK-217F,GB,25°C TOTAL FAILURE RATE : 0.622928 M.T.B.F : 1605.322K HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	PETER CHENG