



Test Report : SKMW06G-05

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

Environment 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 | -0.14% | P |
| 2 | RIPPLE & NOISE | 85 mVp-p (Max) | I/P:48VDC O/P:FULL LOAD Ta:25°C | 45mV | P |
| 3 | LINE REGULATION | -0.2% ~ +0.2% | I/P:18VDC~75VDC O/P:FULL LOAD Ta:25°C | +0.10% ~ +0.10% | P |
| 4 | LOAD REGULATION | -1.0% ~ +1.0% | I/P:48VDC O/P:5% LOAD~FULL LOAD Ta:25°C | -0.22% ~ -0.03% | 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 | 14.62 VDC ~ 75.0 VDC | P |
| 2 | EFFICIENCY | 81% (Typ) | I/P:48VDC O/P:FULL LOAD Ta:25°C | 84.61% | P |
| 3 | DC CURRENT | 155 mA / FULL LOAD 2 mA / NO LOAD | I/P:48VDC O/P:NO / FULL LOAD Ta:25°C | 148 mA / FULL LOAD 2.0 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 | 162.5% 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 |

