

Model : SCW05B-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:24VDC O/P:50% LOAD Ta:25°C | +0.1% | P |
| 2 | RIPPLE & NOISE | 100mVp-p (Max) | I/P:24VDC O/P:FULL LOAD Ta:25°C | 20mV | P |
| 3 | LINE REGULATION | -0.2%~+0.2% (Max) | I/P:18VDC~36VDC O/P:FULL LOAD Ta:25°C | -0.1%~+0% | P |
| 4 | LOAD REGULATION | -0.2%~+0.2% (Max) | I/P:24VDC 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 | 18VDC~36VDC (Typ) | I/P:TESTING O/P:FULL LOAD Ta:25°C | 11.5V~36V | P |
| 2 | EFFICIENCY | 82% (Typ) | I/P:24VDC O/P:FULL LOAD Ta:25°C | 82.1% | P |
| 3 | DC CURRENT | 287mA FULL LOAD (Max) 22mA NO LOAD (Typ) | I/P:24VDC O/P:FULL LOAD Ta:25°C | 286.4mA 21.7mA | 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 | 187% 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 |
| | | | | | |
| | | | | | |
| 2 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 1.5 HOURS | I/P:24VDC O/P: 100% LOAD Ta= -40°C | TEST : OK | P |
| 3 | HIGH TEMPERATURE BURN IN TEST | CONTROL Ta=71°C NO DAMAGE | I/P:24VDC 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:20GΩ NO DAMAGE | P |

| DATE | SAMPLE | TEST RESULT | TESTER | APPROVAL |
|-----------|-----------|-------------|-----------|----------|
| 2004.4.26 | SCW05B-12 | PASS | T.K.CHENG | MAX LIN |