

Model : DCW03C-05 3W DC-DC Dual Output Converter
 V1 : +5V / 30~300mA
 V2 : - 5V / 30~300mA

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|------------------|--|---|--------------------------|---------|
| 1 | VOLTAGE ACCURACY | V1:-2%~+2% (Max) V2:-2%~+2% (Max) | I/P:48VDC O/P:50% LOAD Ta:25°C | V1:-1.0% V2:-0.8% | P |
| 2 | RIPPLE & NOISE | V1:100mVp-p (Max) V2:100mVp-p (Max) | I/P:48VDC O/P:FULL LOAD Ta:25°C | V1:38mV V2:38mV | P |
| 3 | LINE REGULATION | V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max) | I/P:36VDC~72VDC O/P:FULL LOAD Ta:25°C | V1:-0%~+0% V2:-0%~+0% | P |
| 4 | LOAD REGULATION | V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max) | I/P:48VDC O/P:MIN~FULL LOAD Ta:25°C | V1:-0%~+0% V2:-0%~+0% | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|------------------|-------------------|---|-----------|---------|
| 1 | DC VOLTAGE RANGE | 36VDC~72VDC (Typ) | I/P:TESTING O/P:FULL LOAD Ta:25°C | 24.6V~72V | P |
| 2 | EFFICIENCY | 76% (Typ) | I/P:48VDC O/P:FULL LOAD Ta:25°C | 79.4% | P |
| 3 | DC CURRENT | 83mA (Max) | I/P:48VDC O/P:FULL LOAD Ta:25°C | 78mA | 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 | |
|----|-----------------------|--|----------------|-----------|---------|-----------------|
| 1 | TEMPERATURE RISE TEST | 1. ROOM AMBIENT BURN-IN : 15HRS I/P:48VDC O/P:FULL LOAD Ta=25°C | | | P | |
| | | | Position | P/N | | TEMP Ta=25°C |
| | | | CASE | DCW03C-05 | | 38.1°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:16.7GΩ NO DAMAGE | P |

| DATE | SAMPLE | TEST RESULT | TESTER | APPROVAL |
|-----------|-----------|-------------|------------|----------|
| 2003.8.28 | DCW03C-05 | PASS | FRANK.CHEN | MAX LIN |