

Quality Engineering Test Report

SERIES: DCW03B 3W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:

A.DCW03B-05	V1:+5V / 300mA
	V2: -5V / 300mA
B.DCW03B-12	V1:+12V / 125mA
	V2: -12V / 125mA
C.DCW03B-15	V1:+15V / 100mA
	V2: -15V / 100mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 18~36VDC O/P : FULL LOAD	A:10~36VDC	P
2	LINE REGULATION	I/P : 18~36VDC SPEC : 0.2% O/P : FULL LOAD	A:V1: -0%~+0% V2: -0%~+0% B:V1: -0%~+0% V2: -0%~+0% C:V1: -0%~+0% V2: -0%~+0%	P
3	LOAD REGULATION	I/P : 24VDC SPEC : ±2% O/P : MIN. TO FULL LOAD	A:V1: -0.02%~+0.08% V2: -0.12%~+0.02% B:V1: -0.08%~+0% V2: -0.02%~+0.12% C:V1: -0.03%~+0.05% V2: -0.07%~+0.05%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 18~36VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A:V1: -2.45%~+2.63% V2: -2.63%~+2.43% B:V1: -1.25%~+1.04% V2: -1.07%~+1.25% C:V1: -1.05%~+1.00% V2: -1.01%~+1.04%	P
5	RIPPLE & NOISE	I/P : 24VDC SPEC : 100mV O/P : FULL LOAD	A: V1:15mV V2:10mV B: V1:23mV V2:25mV C: V1:10mV V2:10mV	P
6	DC INPUT CURRENT	I/P : 24VDC SPEC : NONE O/P : FULL LOAD	A:0.15A	P
7	OVER LOAD PROTECTION	I/P : 24VDC SPEC : NONE O/P : TESTING	A:200% B:208% C:225%	P
8	O/P VOLTAGE ACCURACY	I/P : 24VDC SPEC : ±2% O/P : MIN. LOAD	A: V1:-0.22% V2:-0.34% B: V1:+0.66% V2:+0.83% C: V1:-0.42% V2:-0.20%	P

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
9	SET UP TIME	I/P : 24VDC O/P : FULL LOAD SPEC : NONE	A:1.5mS	P								
10	EFFICIENCY	I/P : 24VDC O/P : FULL LOAD SPEC : 73%	A:83.5% B:86.3% C:83.0%	P								
11	INSULATION RESISTANCE	SPEC : I/P – O/P 500VDC/100MΩ MIN.	A:I/P – O/P > 100M Ω	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P – O/P : < 0.02mA	P								
13	BURN-IN TEST	I/P:24VDC TA:25 °C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P								
14	TEMPERATURE RISE TEST ΔT OF PARTS	A:I/P : 24VDC O/P : FULL LOAD TA : 25 °C AFTER 4 hrs BURN-IN	<table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>ΔT</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>DCW03B-05</td> <td>37.2°C</td> <td>12.2°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	ΔT	CASE	DCW03B-05	37.2°C	12.2°C	P
POSITION	SAMPLE	TEMP	ΔT									
CASE	DCW03B-05	37.2°C	12.2°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	A: 1. PACKING : 上下夾泡棉外加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHXD=31.8X20.3X12.2mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1999.02.24	DCW03B-05 DCW03B-12 DCW03B-15	PASS	鄭讚國	MAX LIN								