

Model : DCW05C-05 5W DC-DC Dual Output Converter
 V1 : +5V / 50~500mA
 V2 : -5V / 50~500mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OUTPUT VOLTAGE ACCURACY	V1:-2%~+2% (Max) V2:-2%~+2% (Max)	I/P: 48VDC O/P:50% LOAD Ta:25°C	V1:-0.6% V2:-0.5%	P
2	RIPPLE & NOISE	V1:100mVp-p (Max) V2:100mVp-p (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	V1:23mVp-p V2:23mVp-p	P
3	LINE REGULATION	V1:-0.2%~+0.2% (Max) V2:-0.2%~+0.2% (Max)	I/P:36VDC ~72VDC O/P:FULL LOAD Ta:25°C	V1: -0%~+0% V2: -0%~+0%	P
4	LOAD REGULATION	V1:-0.2%~+0.2% (Max) V2:-0.2%~+0.2% (Max)	I/P:48VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.1%~+0% V2: -0.14%~+0.04%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	36VDC~72VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	28V~72Vdc	P
2	EFFICIENCY	77% (TYP)	I/P:48VDC O/P:FULL LOAD Ta:25°C	77.3%	P
3	INPUT CURRENT	135mA FULL LOAD (Max.) 10mA NO LOAD (Typ.)	I/P:48VDC O/P:TEST Ta:25°C	134mA / FULL LOAD 4.3mA / NO LOAD	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	144% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:72VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT							
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 16HRS I/P:48VDC O/P: FULL LOAD Ta= 28°C										
		<table border="1"> <thead> <tr> <th>Position</th> <th>P/N</th> <th>TEMP Ta=28°C</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>CENTER</td> <td>49.4°C</td> </tr> </tbody> </table>			Position	P/N	TEMP Ta=28°C	CASE	CENTER	49.4°C		P
Position	P/N	TEMP Ta=28°C										
CASE	CENTER	49.4°C										
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 1.5 HOURS	I/P:48VDC O/P: 100% LOAD Ta= -40°C	TEST : OK	P							
3	HIGH TEMPERATURE BURN IN TEST	CONTROL Ta=71°C NO DAMAGE	I/P:48VDC 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:1000 VDC/min	I/P-O/P:1000 VDC/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:500 VDC Ta:25°C	I/P-O/P>100MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.4.28	DCW05C-05	PASS	T.K.CHENG	MAX LIN