

Model : DKA30C-05    25W    DC-DC    Dual Output Converter  
 V1 : +5V / 250~2500mA  
 V2 : -5V / 250~2500mA

**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:-0.8% 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	V1:25mVp-p V2:23mVp-p	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: -0.1%~+0% V2: -0.1%~+0%	P
4	LOAD REGULATION	V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max)	I/P:48VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.2%~+0.1% V2: -0.2%~+0.2%	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	22V~72Vdc	P
2	EFFICIENCY	80% (TYP)	I/P:48VDC O/P:FULL LOAD Ta:25°C	84.6%	P
3	INPUT CURRENT	0.77A (Typ.) FULL LOAD 10mA (Typ.) NO LOAD	I/P:48VDC O/P:TEST Ta:25°C	0.62A / FULL LOAD 10mA / NO LOAD	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	110%~250%(Typ)	I/P:48VDC O/P:TESTING Ta:25°C	132% HICCUP MODE RESET 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 RESET AUTO-RECOVER	P

**CONTROL FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	Power on >4.5~5.5V (typ) or open Power off <1.2V (typ) or short	I/P:48VDC O/P:FULL LOAD Ta:25°C	Power on>3.3Vdc Power off<3.0Vdc	P
2	TRIM	+10%~-10%(Typ)	Trim ~ +Vout Trim DOWN Trim ~ -Vout Trim UP Using 500k ohm VR	Trim DOWN -21.5% Trim UP +10%	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 2HRS I/P:48VDC O/P: FULL LOAD Ta= 25°C			P

Position	P/N	TEMP Ta=25°C
CASE	CENTER	52.7°C

**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
2004.4.22	DKA30C-05	PASS	T.K.CHENG	MAX LIN