

Model : DKE15C-24    15W    DC-DC    Dual Output Converter  
 V1 : +24V / 31.3~313mA  
 V2 : - 24V / 31.3~313mA

**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:-0.4% V2:-0.5%	P
2	RIPPLE & NOISE	V1:80mVp-p (Max) V2:80mVp-p (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	V1:15mV V2:15mV	P
3	LINE REGULATION	V1:-0.3%~+0.3% (Max) V2:-0.3%~+0.3% (Max)	I/P:36VDC~72VDC O/P:FULL LOAD Ta:25°C	V1:-0%~+0.1% 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: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	26.9V~72V	P
2	EFFICIENCY	85% (Typ)	I/P:48VDC O/P:FULL LOAD Ta:25°C	85.7%	P
3	DC CURRENT	400mA (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	365mA	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	160%~250% (Max)	I/P:48VDC O/P:TESTING Ta:25°C	197% 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 : 62HRS I/P:48VDC O/P:FULL LOAD Ta=25°C			P	
			Position	P/N		TEMP Ta=25°C
			CASE	DKE15C-24		42.2°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:205MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.2.20	DKE15C-24	PASS	FRANK.CHEN	MAX LIN