

Model : DKE10A-24 10W DC-DC Dual Output Converter
 V1 : +24V / 21~210mA
 V2 : - 24V / 21~210mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	V1:-2%~+2% (Max) V2: -2%~+2% (Max)	I/P:12VDC O/P:50% LOAD Ta:25°C	V1:-1.0 % V2:-1.0 %	P
2	RIPPLE & NOISE	V1:80mVp-p (Max) V2:80mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	V1:23mV V2:25mV	P
3	LINE REGULATION	V1:-0.3%~+0.3% (Max) V2:-0.3%~+0.3% (Max)	I/P:9VDC~18VDC 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:12VDC O/P:MIN~FULL LOAD Ta:25°C	V1:-0%~+0% V2:-0.1%~+0%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	9VDC~18VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	8.3V~18V	P
2	EFFICIENCY	78% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	78.1%	P
3	DC CURRENT	1100mA (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	1065mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	160%~250% (Max)	I/P:12VDC O/P:TESTING Ta:25°C	234% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:12VDC 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 : 39HRS I/P:12VDC O/P:FULL LOAD Ta=25°C			P						
		<table border="1"> <tr> <td>Position</td> <td>P/N</td> <td>TEMP Ta=25°C</td> </tr> <tr> <td>CASE</td> <td>DKE10A-24</td> <td>47.8°C</td> </tr> </table>	Position	P/N	TEMP Ta=25°C	CASE	DKE10A-24	47.8°C			
Position	P/N	TEMP Ta=25°C									
CASE	DKE10A-24	47.8°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:30GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.9.16	DKE10A-24	PASS	FRANK.CHEN	MAX LIN