

Model : DKA30A-15 30W DC-DC Dual Output Converter
 V1 : +15V / 100~1000mA
 V2 : -15V / 100~1000mA

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: 12VDC O/P:50% LOAD Ta:25°C	V1:-0.6% V2:-0.6%	P
2	RIPPLE & NOISE	V1:100mVp-p (Max) V2:100mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	V1:33mVp-p V2:35mVp-p	P
3	LINE REGULATION	V1:-0.5%~+0.5% (Max) V2:-0.5%~+0.5% (Max)	I/P:9VDC ~18VDC 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:12VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.2%~+0.1% V2: -0.1%~+0.1%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	9VDC~18VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	8.1V~18Vdc	P
2	EFFICIENCY	80% (TYP)	I/P:12VDC O/P:FULL LOAD Ta:25°C	83.1%	P
3	INPUT CURRENT	3.2A (Typ.) FULL LOAD 40mA (Typ.) NO LOAD	I/P:12VDC O/P:TEST Ta:25°C	2.99A / FULL LOAD 40mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:12VDC O/P:TESTING Ta:25°C	138% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:18VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	Power on >5.5V (typ) or open Power off <0.8V (typ) or short	I/P:12VDC O/P:FULL LOAD Ta:25°C	Power on>3.5Vdc Power off<2.8Vdc	P
2	TRIM	+10%~-10%(Typ)	Trim ~ +Vout Trim DOWN Trim ~ -Vout Trim UP Using 500k ohm VR	Trim DOWN -50.0% Trim UP +11.5%	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT							
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 2HRS I/P:12VDC O/P: FULL LOAD Ta= 27°C			P							
		<table border="1"> <thead> <tr> <th>Position</th> <th>P/N</th> <th>TEMP Ta=27°C</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>CENTER</td> <td>53.2°C</td> </tr> </tbody> </table>			Position	P/N	TEMP Ta=27°C	CASE	CENTER	53.2°C		
Position	P/N	TEMP Ta=27°C										
CASE	CENTER	53.2°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	DKA30A-15	PASS	T.K.CHENG	MAX LIN