

Model : DKA30A-05

**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:-0.4% V2:-0.2%	P
2	RIPPLE & NOISE	V1:100mVp-p (Max) V2:100mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	V1:20mVp-p V2:20mVp-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%~+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:FULL~MIN LOAD Ta:25°C	V1: -0%~+0% V2: -0.2%~+0.2%	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	7.7V~18Vdc	P
2	EFFICIENCY	80% (TYP)	I/P:12VDC O/P:FULL LOAD Ta:25°C	80.7%	P
3	INPUT CURRENT	3.2A (Typ.) FULL LOAD 40mA (Typ.) NO LOAD	I/P:12VDC O/P:TEST Ta:25°C	2.58A / FULL LOAD 34mA / NO LOAD	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	110%~250%(Typ)	I/P:12VDC O/P:TESTING Ta:25°C	142% HICCUP MODE RESET AUTO-RECOVER	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-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 <0.8V (Typ) or short	I/P:12VDC O/P:FULL LOAD Ta:25°C	Power on>3.4Vdc Power off<3.2Vdc	P
2	TRIM	+10%~-10%(Typ)	Trim ~ +Vout Trim DOWN Trim ~ -Vout Trim UP Using 100k ohm VR	Trim DOWN -22.0% Trim UP +9.6%	P

## ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT								
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 4HRS I/P:12VDC O/P: FULL LOAD Ta= 27.6°C 2. HIGH AMBIENT BURN-IN : 44HRS I/P:12VDC O/P: FULL LOAD Ta= 51.9°C			P								
		<table border="1"> <thead> <tr> <th>Position</th> <th>P/N</th> <th>TEMP Ta=27.6°C</th> <th>TEMP Ta=51.9°C</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>CENTER</td> <td>65.2°C</td> <td>87.1°C</td> </tr> </tbody> </table>		Position	P/N	TEMP Ta=27.6°C	TEMP Ta=51.9°C	CASE	CENTER	65.2°C	87.1°C		
Position	P/N	TEMP Ta=27.6°C	TEMP Ta=51.9°C										
CASE	CENTER	65.2°C	87.1°C										
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOURS	I/P:12VDC O/P: 100% LOAD Ta= -10°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
2004.8.30	DKA30A-05	PASS	FRANK.CHEN	MAX LIN