

Model : TKA30B-B 25W

V1 : +5V / 350~3500mA

V2 : +12V / 31~310mA

V3 : -12V / 31~310mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OUTPUT VOLTAGE ACCURACY	V1:-2%~+2% V2:-5%~+5% V3:-5%~+5%	I/P: 24VDC O/P:50% LOAD Ta:25°C	V1: -0.2% V2: +2.75% V3: +2.3%	P
2	RIPPLE & NOISE	V1:100mVp-p V2:100mVp-p V3:100mVp-p	I/P:24VDC O/P:FULL LOAD Ta:25°C	V1: 45mVp-p V2: 38mVp-p V3: 36mVp-p	P
3	LINE REGULATION	V1:-0.5%~+0.5% V2:-1.0%~+1.0% V3:-1.0%~+1.0%	I/P:18VDC ~36VDC O/P:FULL LOAD Ta:25°C	V1: -0%~+0% V2: -0.1%~+0% V3: -0.1%~+0%	P
4	LOAD REGULATION	V1:-2%~+2% V2:-5%~+5% V3:-5%~+5%	I/P:24VDC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.2%~+0% V2: -0.16%~+0.16% V3: -0.24%~+0.24%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18VDC~36VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	10.5~36VDC	P
2	EFFICIENCY	82% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	85.6%	P
3	INPUT CURRENT	1.27A (Typ.) FULL LOAD 18mA (Typ.) NO LOAD	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	1.22A / FULL LOAD 18mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	110% ~ 250%	I/P:24VDC O/P:TESTING Ta:25°C	122% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:36VDC 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 : R.C >4.5~5.5V or open Power off : R.C <0.8V or short (-Vin)	I/P:24VDC O/P:FULL LOAD Ta:25°C	Power on : R.C>3.7Vdc OR Open Power off : R.C<3.0Vdc OR Short	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

E.M.C TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RADIATION	EN55022 CLASS A	I/P:24VDC O/P:FULL LOAD Ta:25°C	PASS	P
2	E.S.D	IEC61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P:24VDC O/P:FULL LOAD Ta:25°C	CRITERIA A	P
3	E.F.T	IEC61000-4-4 LIGHT INDUSTRY INPUT: 0.5KV	I/P:24VDC O/P:FULL LOAD Ta:25°C	CRITERIA A	P
4	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-L :0.5KV	I/P:24VDC O/P:FULL LOAD Ta:25°C	CRITERIA A	P
5	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/min Ta:25°C	I/P-O/P:0.002mA NO DAMAGE	P
6	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25°C	I/P-O/P:>100MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2008.8.15	TKA30B-B	PASS	PETER	T.K.CHENG