

MODEL : MES30A-3 30W

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	80mVp-p (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	10mVp-p	P
2	VOLTAGE TOLERANCE	-3% ~ +3% (Max)	I/P:90VAC~264VAC O/P:FULL~MIN. LOAD Ta:25°C	-1.5% ~ +2.0%	P
3	LINE REGULATION	-1% ~ +1% (Max)	I/P:90VAC ~264VAC O/P:FULL LOAD Ta:25°C	-0% ~ +0%	P
4	LOAD REGULATION	-3% ~ +3% (Max)	I/P:230VAC O/P:FULL ~MIN LOAD Ta:25°C	-1.5% ~ +1.8%	P
5	SET UP TIME	300mS (Max)	I/P: 230VAC O/P:FULL LOAD Ta:25°C	130.7mS	P
6	RISE TIME	50mS (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	4.62mS	P
7	HOLD UP TIME	16mS (Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	20.0mS	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE	90VAC ~ 264VAC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	65V ~ 264V	P
2	FREQUENCY RANGE	47Hz ~ 63Hz (Typ) NO DAMAGE OSC	I/P: 90VAC ~ 264VAC O/P:FULL~MIN LOAD Ta:25°C	TEST: OK	P
3	EFFICIENCY	74% (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	78.2%	P
4	AC CURRENT	0.8A (Max)	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.64A	P
5	INRUSH CURRENT	35A (Max) COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	34.2A	P

6	LEAKAGE CURRENT	0.3mA (Max)	I/P:240VAC O/P:Min LOAD Ta:25°C	L-FG:0.23mA N-FG:0.22mA	P
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PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	150%~350% (Typ)	I/P:230VAC O/P:TESTING Ta:25°C	270% HICCUP MODE RESET AUTO RECOVER	P
2	OVER VOLTAGE PROTECTION	110~140% (Typ)	I/P:230VAC O/P:MIN LOAD Ta:25°C	119% HICCUP MODE RESET: AUTO RECOVER	P
3	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:264VAC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE RESET AUTO RECOVER	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 16HRS I/P:230VAC O/P:100% LOAD Ta=28°C			P

NO	Position	P/N	TEMP Ta=28°C
1	C5	FUHYIN 68u/400V HFR 105°C 16*20	72.4°C
2	D1	D2SBA 2A/600V	81.6°C
3	T1	EF-25	99.7°C
4	IC1	TOP246Y	85.8°C
5	D4	F10P10Q TO-220F	88.6°C
6	C15	LTEC 1000uF/16V LZG 105°C 10*23	73.9°C

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:5656VDC/min I/P-FG:2828VDC/min	I/P-O/P:5656VDC/min I/P-FG:2828VDC/min Ta:25°C	I/P-O/P:0.02mA I/P-FG:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ	I/P-O/P:500VDC I/P-FG:500VDC Ta:25°C	I/P-O/P: 23.5GΩ I/P-FG: 21.2GΩ NO DAMAGE	P
3	PROTECTIVE EARTHING	FG(PE) TO TRACE < 0.1Ω	30A / 2min Ta:25°C	0.006Ω	P
4	SAFETY STANDARDS	TUV: Certificate NO : TA 50044182, UL: File NO : E 227340			P

**E.M.C TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	HARMONIC	EN 61000-3-2 CLASS A	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	PASS	P
2	CONDUCTION	EN55011 CLASS B	I/P:230VAC (50HZ) O/P:FULL/50% LOAD Ta:25°C	PASS	P
3	RADIATION	EN55011 CLASS B	I/P:230VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS	P
4	E.S.D	IEC61000-4-2 LIGHT INDUSTRY AIR: 8KV / Contact: 6KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
5	E.F.T	IEC61000-4-4 LIGHT INDUSTRY INPUT: 2KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
6	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N :1KV L,N-PE:2KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
7	Test by certified Lab & Test Report Prepare				

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C15 IS THE MOST CRITICAL COMPONENT I/P:230 VAC O/P:FULL LOAD Ta=28°C LIFE TIME=43169HRS			P
2	MTBF	MIL-HDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE: 1.607378 M.T.B.F: 622131HRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2004.8.17	PRODUCT SAMPLE	PASS	T.K.CHENG	MAX LIN