



Test Report : GSM60X07

60W AC-DC Reliable Green Slim Wall-mounted Medical Adaptor

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

■ SAFETY TEST

Safety Test

■ RELIABILITY TEST

Environment Test

Other test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	100 mVp-p (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	82 mVp-p	P
2	VOLTAGE TOLERANCE	-5% - +5% (Max)	I/P:90VAC~264VAC O/P:FULL-MIN. LOAD Ta:25°C	+0.12% ~ +3.1%	P
3	LINE REGULATION	-1% - +1% (Max)	I/P:90VAC ~264VAC O/P:FULL LOAD Ta:25°C	+0.09% ~ +0.0%	P
4	LOAD REGULATION	-5% - +5% (Max)	I/P:230VAC O/P:FULL -MIN LOAD Ta:25°C	-1.47% ~ +1.47%	P
5	SET UP TIME	1000ms	I/P:230VAC O/P:FULL LOAD Ta:25°C	827.9ms	P
6	RISE TIME	100ms	I/P:230VAC O/P:FULL LOAD Ta:25°C	2.68ms	P
7	HOLD UP TIME	10 ms(Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	53.61ms	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE	80VAC ~ 264VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	50V ~ 264V	P
2	FREQUENCY RANGE	50HZ - 60HZ (Typ) NO DAMAGE OSC	I/P: 100VAC ~ 240VAC O/P:FULL-MIN LOAD Ta:25°C	TEST: OK	P
3	EFFICIENCY	85%	I/P:230VAC O/P:FULL LOAD Ta:25°C	85.27%	P
4	AVERAGE EFFICIENCY	86.03% (DoE Level V) 86.03% (CoC Version 4)	I/P:115/230VAC O/P:25% 、 50% 、 75% 、 100% LOAD Ta:25°C	87.09% (115VAC) 86.40% (230VAC)	P
5	AC CURRENT	1.5 A (Max)	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.86A	P
6	NO LOAD POWER CONSUMPTION	< 0.075W (Max)	I/P:230VAC O/P: NO LOAD Ta:25°C	0.0365W	P

7	INRUSH CURRENT	< 100A COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	69.8A	P
8	LEAKAGE CURRENT	< 100μA	I/P:264VAC O/P:Min LOAD Ta:25°C	L-FG: 20μA N-FG: 20μA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	105%~160%	I/P:230VAC O/P:TESTING Ta:25°C	136.8% HICCUP MODE RESET : AUTO RECOVER	P
2	OVER VOLTAGE PROTECTION	110%~140%	I/P:230VAC O/P:MIN LOAD Ta:25°C	121% (MMSZ5239BF) Clamp by ZENER diode	P
3	SHORT PROTECTION	SHORT OUTPUT 1 HOUR NO DAMAGE	I/P:264VAC O/P:FULL LOAD Ta:25°C	NO DAMAGE HICCUP MODE RESET AUTO RECOVER	P

■ SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:5656 VDC/min	I/P-O/P:5656 VDC/min Ta:25°C	I/P-O/P: 0.03uA 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

■ RELIABILITY TEST

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-KDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE : 2.042375 M.T.B.F : 489626.05 HRS			P
TEST RESULT		TESTER		APPROVAL	
PASS		Archen Hsiao		Peter Chen	