



# Test Report : GSM06x09

---

AC-DC Green Medical Adaptor

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

## ■ SAFETY TEST

Safety Test

## ■ RELIABILITY TEST

Other test

## DESIGN VERIFY TEST

### OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	80mVp-p (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	46mVp-p	P
2	VOLTAGE TOLERANCE	-5% - +5% (Max)	I/P:90VAC~264VAC O/P:FULL-MIN. LOAD Ta:25°C	-1.32% ~ +2.59%	P
3	LINE REGULATION	-0.5% - +0.5% (Max)	I/P:90VAC ~264VAC O/P:FULL LOAD Ta:25°C	-0.18% ~ +0.04%	P
4	LOAD REGULATION	-5% - +5% (Max)	I/P:230VAC O/P:FULL - MIN LOAD Ta:25°C	-1.12% ~ +2.58%	P
5	SET UP TIME	1000mS	I/P:230VAC O/P:FULL LOAD Ta:25°C	612mS	P
6	RISE TIME	50mS	I/P:230VAC O/P:FULL LOAD Ta:25°C	37.8mS	P
7	HOLD UP TIME	8mS (Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	17.1mS	P

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE	90VAC ~ 264VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	68V ~ 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	76% (Typ.)	I/P:230VAC O/P:FULL LOAD Ta:25°C	78.81%	P
4	AVERAGE EFFICIENCY	73.41% (LEVEL V)	I/P:115/230VAC O/P:25%、50%、75%、100% LOAD Ta:25°C	78.32% (115VAC) 77.48% (230VAC)	P
5	AC CURRENT	0.18A (Max)	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.143A	P
6	NO LOAD POWER CONSUMPTION	0.3W	I/P:230VAC O/P: NO LOAD Ta:25°C	0.1W	P

7	INRUSH CURRENT	< 30A COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	19.3A	P
8	LEAKAGE CURRENT	< 0.05mA	I/P:240VAC O/P:Min LOAD Ta:25°C	L-FG: 0.02mA N-FG: 0.02mA	P

## PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	>105%	I/P:230VAC O/P:TESTING Ta:25°C	0.99A (148%) HICCUP MODE RESET : AUTO RECOVER	P
2	OVER VOLTAGE PROTECTION	110%-140%	I/P:230VAC O/P:MIN LOAD Ta:25°C	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:4242 VDC/min Ta:25°C	I/P-O/P: 0.03uA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>50MΩ	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 : 1.127 M.T.B.F : 886925HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	PETER	VINCENT