



Test Report : GC30x-6P1J

30W Power Adaptor with Charging Function

■ 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
1	DC VOLTAGE SET AT (Typ.)	28.6V	I/P:230VAC O/P:NO LOAD Ta:25°C	28.39V
2	RIPPLE & NOISE	150mVp-p (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	20mVp-p
3	CHARGING VOLTAGE RANGE	27.1V ~ 28.8V	I/P:230VAC O/P:FULL-MIN. LOAD Ta:25°C	27.95V ~ 28.39V
4	LINE REGULATION	-0.5% ~ +0.5% (Max)	I/P:90VAC~264VAC O/P:FULL LOAD Ta:25°C	-0% ~ +0%
5	LED INDICATOR	Green LED ON <150 ~ 200mA < Red LED ON	I/P:230VAC O/P:TESTING Ta:25°C	GREEN : < 0.17A RED : > 0.17A
6	SET UP TIME	200 mS	I/P:230VAC O/P:FULL LOAD Ta:25°C	149.66ms
7	RISE TIME	50 mS	I/P:230VAC O/P:FULL LOAD Ta:25°C	6.83ms
8	HOLD UP TIME	16 mS (Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	28.29mS

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT
1	VOLTAGE RANGE	90VAC ~ 264VAC	I/P:TESTING O/P:FULL LOAD Ta:25°C	69V ~ 264V
2	FREQUENCY RANGE	50HZ - 60HZ (Typ) NO DAMAGE OSC	I/P: 100VAC ~ 240VAC O/P:FULL-MIN LOAD Ta:25°C	TEST: OK
3	EFFICIENCY	80%	I/P:230VAC O/P:FULL LOAD Ta:25°C	84.28 %
4	AC CURRENT	1.0A (Max)	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.52A
5	NO LOAD POWER CONSUMPTION	<1.0W(Max)	I/P:230VAC O/P: NO LOAD Ta:25°C	0.93 W

6	INRUSH CURRENT	< 40A COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	39.7A
7	LEAKAGE CURRENT	< 0.25mA	I/P:240VAC O/P:Min LOAD Ta:25°C	L-FG : 0.02mA N-FG : 0.02mA

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	90~110%(Typ)	I/P:230VAC O/P:TESTING Ta:25°C	102.8% CONSTANT CURRENT MODE RESET : AUTO RECOVER
2	OVER VOLTAGE PROTECTION	CLAMP BY ZENER DIODE 110 ~ 135% (Typ)	I/P:230VAC O/P:MIN LOAD Ta:25°C	Clamp by ZENER diode
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
4	OVER TEMPERATURE PROTECTION	IC1 Tj 130°C	I/P:230VAC O/P:FULL LOAD Ta:25°C	PASS SHUTDOWN OUTPUT VOLTAGE RESET : AUTO RECOVER

SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P:4242 VDC/min	I/P-O/P:4242 VDC/min Ta:25°C	I/P-O/P: 0.03uA NO DAMAGE
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

RELIABILITY TEST

OTHER

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	MTBF	MIL-KDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE : 2.668638 M.T.B.F : 374722.99 HRS		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	ARCHEN HSIAO		