

Model : GS12x18 12W AC-DC Single Output adaptor
 V1 : +18V / 0.67A

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RIPPLE & NOISE	180mVp-p (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	50mVp-p	P
2	VOLTAGE TOLERANCE	-3% - +3% (Max)	I/P:90VAC~264VAC O/P:FULL-MIN. LOAD Ta:25°C	-0.61% ~ +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	-2% - +2% (Max)	I/P:230VAC O/P:FULL ~MIN LOAD Ta:25°C	-0.22% ~ +0.23%	P
5	SET UP TIME	500 mS (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	9.51 mS	P
6	RISE TIME	20 mS (Max)	I/P:230VAC O/P:FULL LOAD Ta:25°C	7.978 mS	P
7	HOLD UP TIME	10 mS (Min)	I/P:115VAC O/P:FULL LOAD Ta:25°C	25.71 mS	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE	100VAC ~ 240VAC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	63.0V ~ 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	80% (Typ)	I/P:230VAC O/P:FULL LOAD Ta:25°C	79.97%	P
4	AVERAGE EFFICIENCY	>72%	I/P:115/230VAC O/P:25%、50%、75%、100% LOAD Ta:25°C	79.6% (115VAC) 76.6% (230VAC)	P
5	AC CURRENT	0.31A	I/P: 100VAC O/P:FULL LOAD Ta:25°C	0.273A	P
6	NO LOAD POWER CONSUMPTION	< 0.3W	I/P:230VAC O/P: NO LOAD Ta:25°C	0.1W	P

7	INRUSH CURRENT	< 45A COLD START	I/P:230VAC O/P:FULL LOAD Ta:25°C	40.85A	P
8	LEAKAGE CURRENT	< 0.25mA	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	170% HICCUP MODE RESET AUTO RECOVER	P
2	OVER VOLTAGE PROTECTION	CLAMP BY ZENER DIODE 115 ~ 135%	I/P:0V O/P:TESTING Ta:25°C	CLAMP BY ZENER DIODE 117.8% (21.2V)	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

SAFETY & E.M.C TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	SAFETY STANDARDS	TUV: Certificate No : S 50114483 (ONLY FOR "E" TYPE) UL: File No : E183223 (ONLY FOR "U" TYPE) BSMI: Certificate No : R33100 (ONLY FOR "U" TYPE)			P
2	HARMONIC	IEC61000-3-2 CLASS A	I/P:230VAC / 50HZ O/P:FULL LOAD Ta:25°C	PASS	P
3	CONDUCTION	EN55022 CLASS B	I/P:230VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS	P
4	RADIATION	EN55022 CLASS B	I/P:230VAC (50HZ) O/P:FULL LOAD Ta:25°C	PASS	P
5	E.S.D	IEC61000-4-2 LIGHT INDUSTRY AIR:8KV / Contact:4KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
6	E.F.T	IEC61000-4-4 LIGHT INDUSTRY INPUT: 1KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
7	SURGE	IEC61000-4-5 LIGHT INDUSTRY L-N :1KV	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CRITERIA A	P
8	WITHSTAND VOLTAGE	I/P-O/P:3KVAC/min	I/P-O/P:3KVAC/min Ta:25°C	I/P-O/P:0.68mA NO DAMAGE	P



9	ISOLATION RESISTANCE	I/P-O/P:500VDC>100M Ω	I/P-O/P:500VDC Ta:25°C	I/P-O/P:>100M Ω NO DAMAGE	P
---	----------------------	------------------------------	---------------------------	-------------------------------------	---

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-HDBK-217F NOTICES2 STRESS ANALYSIS PREDICTION TOTAL FAILURE RATE: 0.7069 M.T.B.F: 1414.6KHRS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2007.12.25	第二次試產	PASS	PETER	T.K.CHENG