

規 格 書
Electrical Specification

ILLO

Issued Date : 2001/11/14

Model : LSE9901B1260

Description : 12V 5.00A 60W AC ADAPTER.

Customer Part No. :

LSE Part No. :

Customer Approval No. :

力信興業股份有限公司
LI SHIN INTERNATIONAL ENTERPRISE CORP.

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* Please return one copy to us after approved. 煩請寄還一份待貴公司承認後.

1.0 Description.

This product is a AC to DC power transfer device, it can provide for a 60W single dc output with constant voltage source.

2.0 Electrical.

2.1 Input Voltage(AC~).

- a. From 100 - 240Vac Nominal.
- b. From 90 - 265Vac Maximum.

2.2 Input Frequency.

From 47- 63Hz.

2.3 Input Current.

- a. 1.50A max at 90Vac.
- b. 0.75A max at 265Vac.

2.4 Inrush Current.

- a. 100A max at cold-start and 25°C, dc output full-loading and 220Vac input.
- b. 50A max at cold-start and 25°C, dc output full-loading and 110Vac input.

2.5 Hold-Up time.

9 msec minimum at dc output full loading and 115Vac 50/60Hz input.

2.6 Input wattage at output no-loading condition.

Less than 2.0Watt at rated input voltage and frequency condition.

2.7 Efficiency.

80% minimum at dc output full loading and nominal AC input voltage range.

2.8 Safety Test.

- a. Leakage current less than 0.50mA at 254Vac, 50Hz.
- b. Hi-Pot test : 3000Vac, 10mA, 2 Sec between Primary to Secondary circuit and Chassis.
- c. Insulation : at dc 500Vdc IR shall $\geq 100M\Omega$ between primary to secondary.
- d. Grounding test : at ac 2-8V, 30A GR shall $\leq 0.1\Omega$ from AC inlet ground to output dc plug ground.

2.9 Output Voltage and Current (DC) with all tolerance.

Vout	12.00V	Iout	5.00A max
Range	11.40 - 12.60V		

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2.10 Ripple and Noise.

Less than 150mVp-p, tested by dc loading side parallel with a 10uF/EC and 0.1uF/Ceramic Capacitors and Measured Band-Width with DC-20MHz.

2.11 Over-Shoot and under-shoot.

Less than 5% of nominal Voltage value.

2.12 Protection.

- a. SCP : For short circuited protection and with auto-recovery function.
- b. OVP : Over-voltage protection with dc output voltage clamped, range : 13.5-15.5Vdc.
- c. OCP : Over-Current Protection , Range : 5.20 - 6.00A on nominal AC input.

2.13 LED Indication.

Green light for Nominal operation.

Blank or Flash for SCP mode.

2.14 Rise time.

The output voltage should rise from 0 volt and settle within regulation in less than 30msec from apply of AC input voltage .

2.15 Output voltage Temperature Coeffiecnce.

Less than 0.2%/C.

2.16 Output Transient Response.

Dynamic loading condition.

dc output	I1 (A)	I2 (A)	dVmax (V)	Test-max	dI/dT
12.0	0.00	1.25	+/- 0.9V	10 msec	>=50mA/usec
12.0	1.25	2.50	+/- 0.9V	10 msec	>=50mA/usec
12.0	2.50	5.00	+/- 0.9V	10 msec	>=50mA/usec

3.0 Environment.

3.1 Temperature.

- a. Operation : 0 to 45 °C
- b. Storage : -20 to 70 °C

3.2 Humidity

- a. Operation : 20 to 80%
- b. Storage : 10 to 90%

3.3 Altitude.

From sea level to 10,000Ft (operation) and 40,000Ft (Non operation).

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4.0 Safety & EMI requirement.

4.1 Safety

Included Limited Power Source.

Safety referring Standards		File Records
UL	1950	E193430
CUL	1950	E193430
TUV/GS	EN 60950	AL 991137190002
Nemko	EN 60950	P99102910
Demko	EN 60950	00-00605
Fimko	EN 60950	FI 14490
Semko	IEC 60950 / EN 60950	0004063/01-02
T-MARK	DENTORI	91-57756
PSE	J60950/J55022	JD 2-50006286
CB TEST	IEC 60950	8389
CCIB	GB4943/95,GB9254/98	2000PS0939
Australia		V00436
IRAM	IEC60950	DC-E-L27-001.2

4.2 EMS

Test Item	Test Specification		IEC Standards
ESD	Contact	8KV	61000-4-2
ESD	Air	15KV	61000-4-2
RF	FR:26MHz-1.0GHz, Field Strength : 3V/M		61000-4-3
EFT	2KV on AC power line.		61000-4-4
SURGE	1KV (L-L) & 2KV (L-PE)		61000-4-5
CS	3V/M		61000-4-6
DIPS	0% 250Cy, 40% 5 Cy, 70% .5Cycle		61000-4-11

4.3 EMI for both Conduction & Radiation.

Referring Standards	Specification
FCC	Part 15, class B
CISPR	Part 22,class B
VCCI	Level 2.
BSMI	檢磁4882A180
C-TICK	N136

5.0 Reliability.

5.1 Life.

Average life expectancy of 5 years.

5.2 M.T.B.F.

80,000 Power On Hours at 25°C

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5.3 Temperature Rise.

Less than 40°C at nominal AC input / DC output full loading and environment temperature 25+/-1°C on Top/Bottom of plastic case.

5.4 Burn-in.

100% Burn-In with 80~100% loading & 35~45°C Environment temperature , Initial sample verification for 72 hours , pilot run for 24 hours and mass production for 4 hours.

5.5 Vibration Test.

- a. Non operation vibration with shipping container shall be 2G'S peak, 5-50Hz, 4G'S peak 50-500Hz, after test no abnormally to be found.
- b. Operation vibration shall be 0.5G'S peak, 10-60Hz, 3 plans, after test no abnormally to be noted.

5.6 Drop-Test.

Test height 110cm, after drop test no function abnormally to be noted.

6.0 Mechanical.




6.1 Plastic Case : Case with UL PC+ABS GE C2950 material

6.2 Physical Size : 110.00mm(L) × 63.00mm (W) × 31.50mm (H).

6.3 Output cable with UL 1185 , 18AWG wires and two pins right angle dc jack type connector.

6.4 Weight about 250g.

END.....

Approve By	Check By	Prepared By
		

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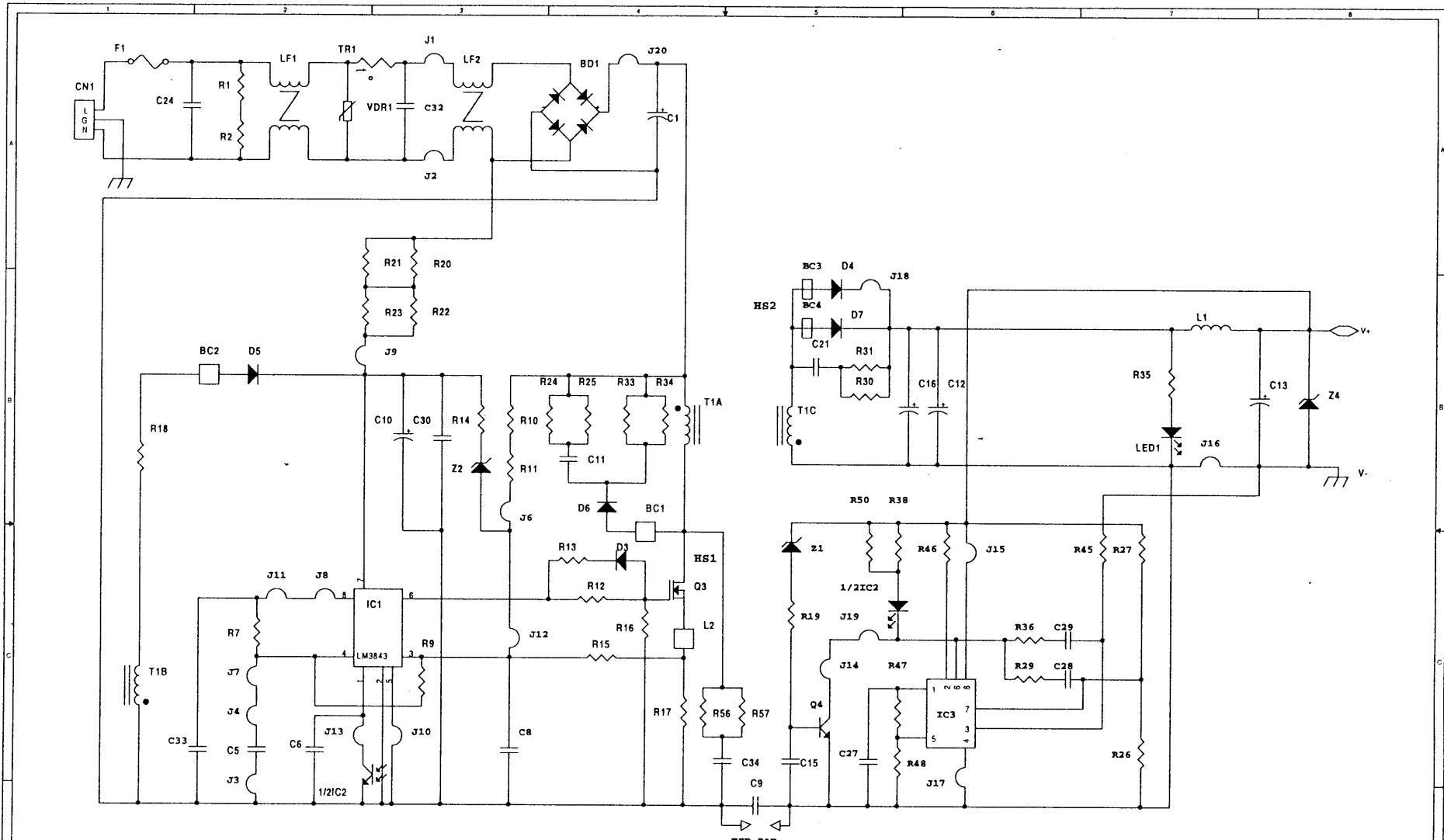
Bill Of Materials

6

Safety License

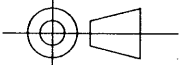
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Test Report

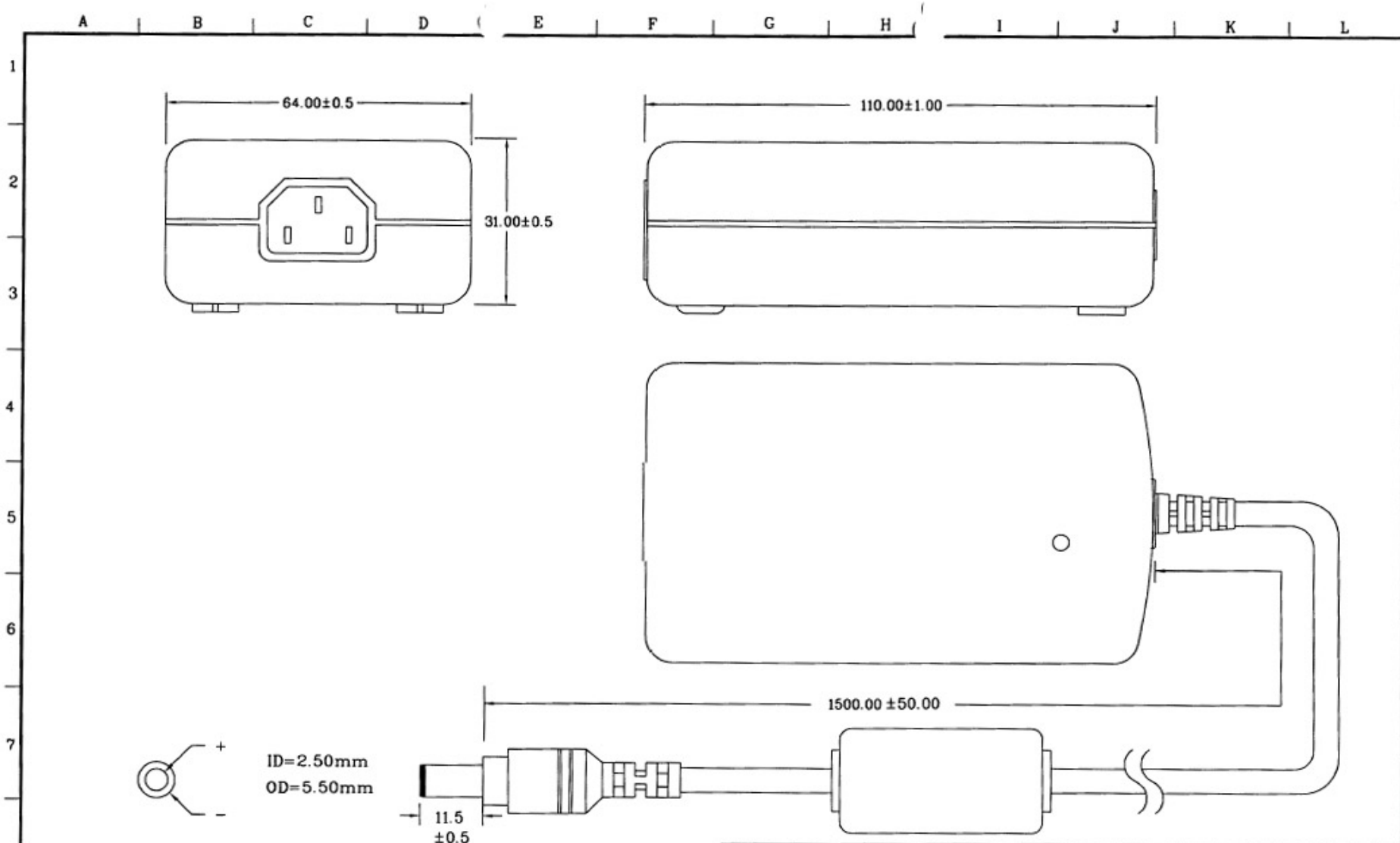



FOR ILLO

LI SHIN INTERNATIONAL ENTERPRISE CORP.

					UNIT	NAME	LSE9901B1260	DATE
0.2	09/16/00	增加 R14,Z2,R56,R57,C34,C30,BC3,BC4.删除C14	DWG NO.	1 OF 1	REV.	0.2	APPROVED	09/16/00
0.1	9/10/99	DESCRIPTION	APPROVED	SHEET	TOL	DRAWN	SAMMI	09/16/00

259901B12018
 B12118
 R12218
 318
 418

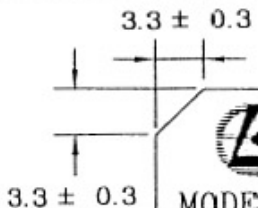


 力信興業股份有限公司				繪圖	設計	核準
				ALICE		
機種	LSE9901B1260	單位	mm	89/06/17		
料號	SLS9901B12118	比例	1 : 1			
圖號	F9901B10	版本	0.1			
頁碼	1 - 1	公差	± 1.00			

版本	日期	說明	核準

A B C D E F G H I J K L

1
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LI SHIN INTERNATIONAL ENTERPRISE CORP.
AC ADAPTER 交流适配器
MODEL: 型号: LSE9901B1260
INPUT: 输入: 100-240V ~, 50/60Hz 1.5A
OUTPUT: 输出: 12V = 5.0A 60W MAX

⚠ WARNING: 注意:
RISK OF ELECTRIC SHOCK DO NOT OPEN
For Indoor Use Only
仅限资讯设备使用

91-57756
 INPUT: 100V~ ,50/60Hz,120VA
 OUTPUT: 12V = 5.0A
 曜荣电具株式会社

45XK

 C U8
 E193430
 LISTED

TUV GS
 PRODUCT SERVICE
 Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk

S20306

LPS I.T.E POWER SUPPLY

(N) (S) (D) (FI) ⊕ ⊖

S/N:

MADE IN CHINA 中国制造 ***

66.00

S/N: XXXXXXXXXX
 ↓ ↓ ↓
 年 週 流水碼

FOR 仁寶
 顏色: 黑底銀字
 材質: 反銀龍上霧膜
 厚度: 75"
 *** 表製造商

44.60 R 3.0 x3PLS

	LI SHIN INTERNATIONAL ENTERPRISE CORP.	DRAWN	CHECKED	APPROVED
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NAME	LSE9901B1260	UNIT	mm
P/N	S7341-0090-12	SCALE	2 : 1
DWG NO.	D9901B12F-1	REV.	0.1
MARK	DATE	DESCRIPTION	APPROVED
SHEET	1 - 1	TOL.	±0.25

VIVIAN
 89/10/12

