

L.T.E. Li Tone Electronics Co., LTD.

Model : LTE120ES-S4-140B7

1. INPUT SPECIFICATIONS

◎Input Range :

Parameter	Conditions / Description	Min.	Nom.	Max.	Units
Voltage	Universal-AC Input normal voltage	100	115/230	240	Vac
	Universal-AC Input ranging voltage	90	115/230	264	Vac
Current	@115Vac 120W Load	--	--	2.0	Arms
	@230Vac 120W Load	--	--	1.0	Arms
Frequency	Auto-ranging	47	50/60	63	Hz

◎Inrush Surge Current :

- Cold Start @115Vac, at 25°C ----- < 40 Ap-p
- Cold Start @230Vac, at 25°C ----- < 80 Ap-p

2. OUTPUT SPECIFICATIONS

◎Output Power :

- Convection Rating ----- 120W Max.

◎Output Range :

Voltage (Vdc)		Load Range (A)		Line Regulation (%)	Load Regulation (%) (Note 1)	Ripple&Noise (PARD) (mVp-p) (Note 2)
		MIN.	Max. (Convection)			
S4	+24V	0A	5A	±0.5%	22.8~25.2Vdc (±5%)	240mVp-p (1.0%)

Note : 1.Load regulation is tested at 10% to 100% of rated load.

2.Peak-to-peak for 120W (convection rating) @115Vac MIN. ; Measurements with a 20MHz bandwidth and terminated with a 22uF electrolytic Cap. In parallel with a 0.1uF ceramic Cap.

◎ Overshoot/Undershoot :

- Turn-on / turn-off ----- <10%

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3. GENERAL SPECIFICATIONS

◎Efficiency :

■ Full Load @ 115Vac	-----	> 87%
■ Full Load @ 230Vac	-----	> 87%
■ DoE/ErP	-----	Meet
■ Power Factor Correction @ 115Vac Full load	-----	> 0.9

◎Turn-on Time :

■ Full Load @115Vac	-----	< 3Sec
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◎Hold-up Time :

■ Full Load @115 Vac	-----	> 16mSec
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◎Safety Ground Leakage Current :

■ Class I type@230Vac 50Hz	-----	< 3.5mA
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◎Withstand(Isolation) Voltage : (UL60950-1 ; EN60950-1 2nd)

■ 4242Vdc, 1 Minute from Input(L1&L2) to Output	-----	< 10mA
■ 2799Vdc, 1 Minute from Input(L1&L2) to Earth	-----	< 10mA

◎Insulation Resistance :

■ Input(L1&L2) to Output @ DC 500V	-----	> 100MΩ
■ Input(L1&L2) to Earth @ DC 500V	-----	> 100MΩ

◎MTBF :

■ Full Load, MIL-HDBK-217F@25°C	-----	> 100kHours
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◎Weight :

■ Not Include Packing	-----	< 650g
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4. PROTECTION SPECIFICATIONS

◎Brown-Out Protection : (Input Voltage drops down to zero then back to nominal slowly)

■ All Outputs	-----	Auto-recovery
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◎Overvoltage Protection : (Auto-recovery)

■ Overvoltage Range	-----	140%±30%
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◎Overcurrent(Overload) Protection : (Overcurrent Range @110%~200% Above Rating Load)

■ All Outputs	-----	Hiccup / Auto-recovery
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◎Short Circuit Protection :

■ All Outputs	-----	Hiccup / Auto-recovery
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5. ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS**◎Electromagnetic Interference(EMI/RFI) :**

■ FCC PART 15 Conducted/Radiated Emissions	-----	Class B
■ CISPR 22 Conducted/Radiated Emissions	-----	Class B
■ EN55022 Conducted/Radiated Emissions	-----	Class B

◎Harmonic Current :

■ EN61000-3-2 Class A	-----	Compliant
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◎Voltage Variation Immunity(Flicker) :

■ EN61000-3-3	-----	Compliant
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◎Electrostatic Discharge(ESD) Susceptibility :

■ EN61000-4-2 ; ±8KV Air Discharge	-----	Criterion A
■ EN61000-4-2 ; ±4KV Contact Discharge	-----	Criterion A
■ EN61000-4-2 ; ±4KV Indirect Discharge	-----	Criterion A

◎Radiated Susceptibility(RS) :

■ EN61000-4-3 ; 3V/M	-----	Criterion A
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◎Electrical Fast Transient(EFT)/Burst :

■ EN61000-4-4 ; Impulse ±1KV	-----	Criterion A
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◎Surge Susceptibility(Input Transient Protection) :

■ EN61000-4-5 ; ±1KV Line(L1) to Neutral(L2)	-----	Criterion A
■ EN61000-4-5 ; ±2KV Line(L1)&Neutral(L2) to Earth	---	Criterion A

◎Conducted RF Immunity :

■ EN61000-4-6 ; 3V	-----	Criterion A
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◎Voltage Dips/Interruptions :

■ EN61000-4-11 ; Dips	-----	Criterion A
■ EN61000-4-11 ; Interruptions	-----	Criterion B

6. SAFETY STANDARDS SPECIFICATIONS

■ UL 60950-1	-----	Certified
■ CUL 60950-1	-----	Certified
■ TUV EN 60950-1	-----	Certified
■ CB Report (IEC 60950-1)	-----	Certified
■ CE	-----	Certified
■ BSMI	-----	Certified
■ PSE	-----	Certified

7. ENVIRONMENTAL SPECIFICATIONS**◎Temperature :**

■ Operating Range	-----	0 ~ 40 °C
■ Storage Range	-----	-40 ~ 85 °C
■ Derating Output (40~60 °C)	-----	-2.5% per °C

◎Relative humidity :

■ Non-Condensing	-----	5 % ~ 95 % RH
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◎Vibration :

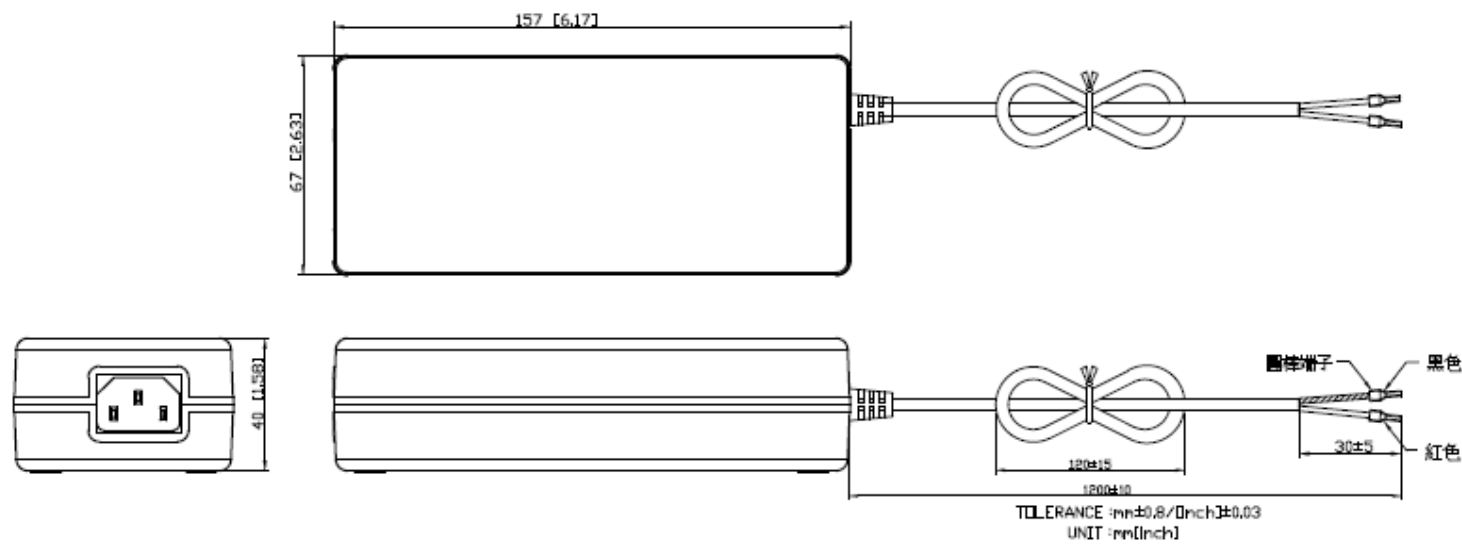
■ Random—Operating , 3 axes , 50~500Hz , 10 minutes/axis	----	2.4Grms Max.
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◎Shock :

■ Operating , Half Sine , 3 axes , 10 mS , 6 shocks total	-----	20Gpk Max.
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8. MECHANICAL SPECIFICATIONS

©Drawing & Dimensions :



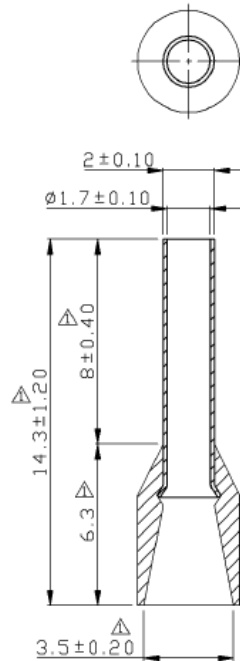
©Connector Types & Pin Assignments :

Connctor Number	Connector Type	Pin Number	Signal
AC Inlet (Input)	IEC320 C14 AC Inlet	Pole 1	FG
		Pole 2	LINE
		Pole 3	NEUTRAL
(Output)	Cable style no. 2464 16AWG 1.2M black with KST terminal E1508. White: +24V, connect with KST terminal E1508 red. Black: Ground, connect with KST terminal E1505 black. (M01-0200-180108)	RED	OUTPUT
		Black	RETURN

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©KST terminal :



NOTE:

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|-------------------------------|--------|----|
| 1. MAXIMUM ELECTRIC CURRENT : | A.W.G. | 16 |
| | AMP. | 18 |
2. MAXIMUM ELECTRICAL RATING : 105°C 600 VOLTS MAX.
 3. INSULATION MATERIAL : NYLON
 4. INSULATION COLOR :
FRENCH COLOR : BLACK
GERMAN COLOR : RED
DIN COLOR : BLACK
 5. CONNECTOR MATERIAL : COPPER TUBE.
 6. WIRE RANGE : 16 A.W.G.(1.5 mm²)
 7. CONNECTOR SURFACE TREATMENT : TIN PLATED

Tolerance Unless Otherwise Specified		5
0 >	mm ± 0.50 ANGLE	
>	mm ± 0° REF ±	
>	mm ± ° ±	
>	mm ± ° ±	

NAME	NYLON-INSULATED CORD END TERMINALS (E SERIES)				UNIT	個	
PART NO.	E1508	MATERIAL	-----	APPROVE	楊駿孝		
NUMBER	KA-95424-C	SCALE	SHEET	PAGE	CHECKED	楊駿孝	
DATE	2006/05/10	5/1	1-1	10F1	DRAWN	張馨尹	

KST. K.S. TERMINALS INC.

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9. MARKING & LABEL SPECIFICATIONS

©ID & Safety Label

(Attached)



(M70-2712-793841A)

©RoHS COMPLIANT Label

(Attached)

