







For Customer Approval

	MFR. & BRAND	MODEL	VENDER			
1	LTE	LTE120ES-S6-100CX	LTE			
AUTHOR	SAFETY	MECHANICAL	ELECTRICAL	APPROVED	DATE	
						02/14/'23

PART NO.

P0S-1611-N120-00CX

REV.

A0

CUSTOMER P/N.&MODEL

AKON

SPEC. & DESCRIPTION

AC/DC SWITCHING POWER SUPPLY



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

Model : LTE120ES-S6-100CX

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)			
S6	+36V	0A	3.33A	±0.5%	34.2~37.8Vdc (±5%)	360mVp-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%

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 32 Conducted/Radiated Emissions | ----- | Class B |
| ■ EN55032 Conducted/Radiated Emissions | ----- | Class B |

◎Harmonic Current :

- | | | |
|-----------------------|-------|-----------|
| ■ EN61000-3-2 Class A | ----- | Compliant |
|-----------------------|-------|-----------|

◎Voltage Variation Immunity(Flicker) :

- | | | |
|---------------|-------|-----------|
| ■ EN61000-3-3 | ----- | Compliant |
|---------------|-------|-----------|

◎Electrostatic Discharge(ESD) Susceptibility :

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

◎Radiated Susceptibility(RS) :

- | | | |
|----------------------|-------|-------------|
| ■ EN61000-4-3 ; 3V/M | ----- | Criterion A |
|----------------------|-------|-------------|

◎Electrical Fast Transient(EFT)/Burst :

- | | | |
|------------------------------|-------|-------------|
| ■ EN61000-4-4 ; Impulse ±1KV | ----- | Criterion A |
|------------------------------|-------|-------------|

◎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 |
|--------------------|-------|-------------|

◎Voltage Dips/Interruptions :

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

6. SAFETY STANDARDS SPECIFICATIONS

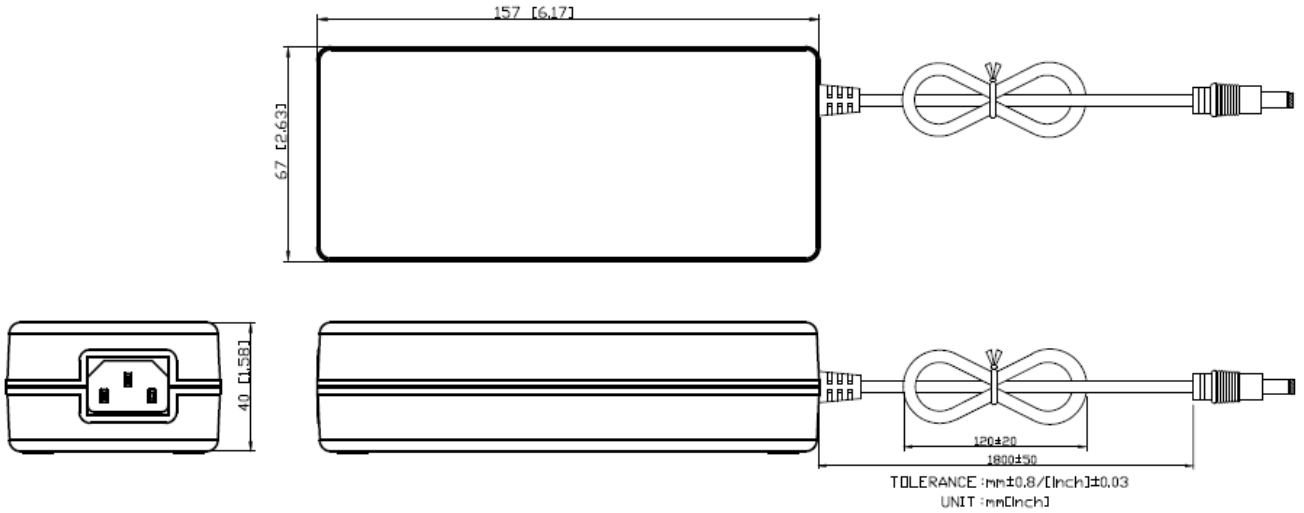
- | | | |
|---------------------------|-------|-----------|
| ■ UL 62368-1 | ----- | Certified |
| ■ CUL 62368-1 | ----- | Certified |
| ■ CB Report (IEC 62368-1) | ----- | Certified |
| ■ CE | ----- | Certified |
| ■ BSMI | ----- | Certified |
| ■ PSE | ----- | Certified |

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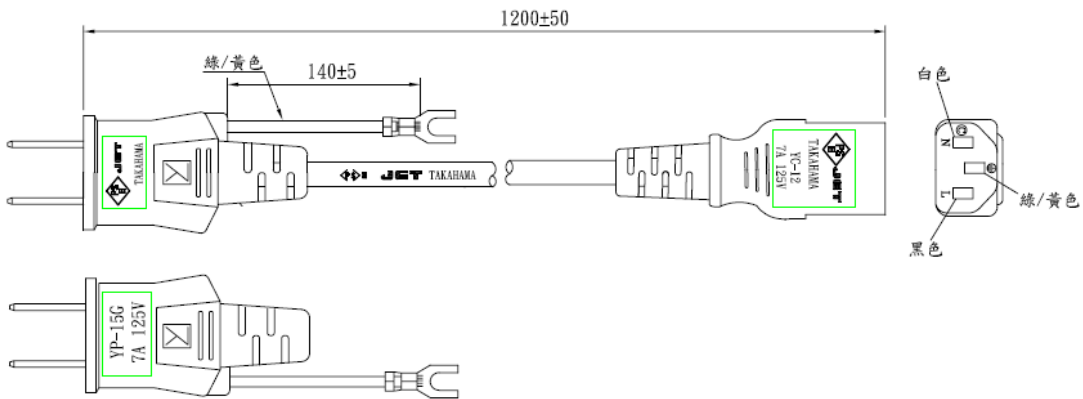
Model : LTE120ES-S6-100CX

8. MECHANICAL SPECIFICATIONS

©Drawing & Dimensions :



©AC POWER CORD :



©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. is 2464 18AWG with 1.8M black with 5.5*2.1*9.5mm DC plug, 180degree.(M01-0210-180123)	INNER	OUTPUT
		OUTTER	RETURN
AC POWER CORD	PSE POWER CORD 1-15P+C13 3*0.75mm L=1200mm (YP-15G/YC-12) (M01-0118-120105)		

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9. MARKING & LABEL SPECIFICATIONS

©ID & Safety Label

(Attached)



(M70-2712-7938610E)

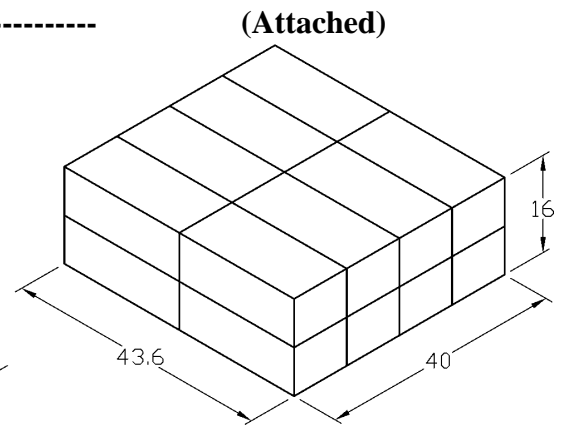
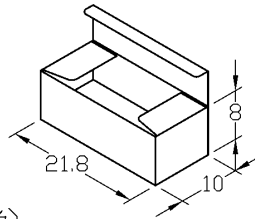
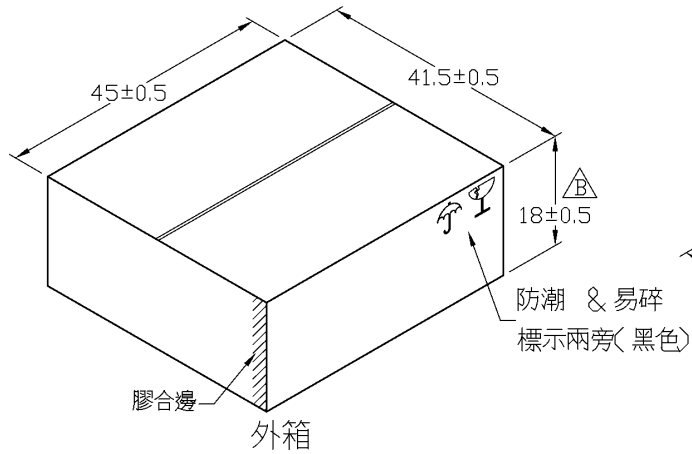
©RoHS COMPLIANT Label

(Attached)



10. PACKAGE

◎Paper Box & Carton



組合示意圖
Scale Free