



Shenzhen Longxc Power Supply Co.,Ltd.

(CUSTOMER) :

# SPECIFICATION

MODEL NO.: LXCP12 SERIES

DOCUMENT NO.: LXC/RD-Spec-012

CUSTOMER NO.:

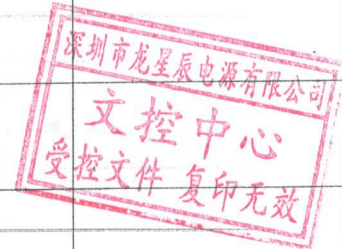
DATE: 2019-11-14

DESCRIPTION: SPS, 100-240VAC 50Hz/60Hz/3.6-15.0VDC

VERSION: V02

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	"√"	CUSTOMER'S SIGNATURE	NOTE
FULL APPROVED			
CONDITIONAL APPROVED			
REJECTED			



ShenZhen longxc power supply co.,ltd

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	<b>深圳市龙星辰电源有限公司</b> <b>Shenzhen Longxc Power Supply Co.,LTD</b>	Rev.	V02	Document NO.	LXC/RD-Spec-012
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## 1. SCOPE

### 1.1 DESCRIPTION

This document introduces the electrical, mechanical and environmental specifications of a switching power supply.

## 2. MODEL NAME RULE

LXCP12-aaabbbcd:

-LXCP= Longxc medical adapter

-12=Name of the series

-aaa="005" \_ "135" stands for the output voltage. "036" means 3.6V, "042" means 4.2V, "005" means 5.0V, "006" means 6.0V, "007" means 7.0V, "075" means 7.5V, "008" means 8.0V, "009" means 9.0V, "010" means 10.0V, "011" means 11.0V, "012" means 12.0V, "135" means 13.5V and, "015" means 15.0V.

-bbb=3 digits with range of "010"- "200" step by 1, which stands for output current. "010" means 0.1A, "200" means 2.0A. In particular, 065 can also be expressed as 650, which means the current is 0.65A, or 650mA.

Details refer to the below table:

Model number	Output current range
LXCP12-036bbbcde	bbb="010"- "200",1.05A-2.0A step by 0.01A
LXCP12-042bbbcde	bbb="010"- "200",1.05A-2.0A step by 0.01A
LXCP12-005bbbcde	bbb="010"- "200",1.05A-2.0A step by 0.01A
LXCP12-006bbbcde	bbb="010"- "200",1.05A-2.0A step by 0.01A
LXCP12-007bbbcde	bbb="010"- "171",0.9A-1.71A step by 0.01A
LXCP12-075bbbcde	bbb="010"- "160",0.1A-1.6A step by 0.01A
LXCP12-008bbbcde	bbb="010"- "150",0.8A-1.5A step by 0.01A
LXCP12-009bbbcde	bbb="010"- "133",0.7A-1.33A step by 0.01A
LXCP12-010bbbcde	bbb="010"- "120",0.65A-1.2A step by 0.01A
LXCP12-011bbbcde	bbb="010"- "100",0.55A-1.0A step by 0.01A
LXCP12-012bbbcde	bbb="010"- "100",0.55A-1.0A step by 0.01A
LXCP12-135bbbcde	bbb="010"- "088",0.1A-0.88A step by 0.01A
LXCP12-015bbbcde	bbb="010"- "080",0.1A-0.8A step by 0.01A

-c="A", "B", "C", "D", "O" or "X" stands for the plug type. "A" means CN plug, "B" means EU plug, "C" means UK plug, and "D" means US plug, "O" means AUS plug, "X" means more plugs in A,B,C,D,O when the "d=F" .

-d="E" or "F" stands for plug installation type. "E" means fixed plug and "F" means detachable plug.

-e="G" or "H" stands for output connector type. "G" means USB connector output and "H" means fixed cord connector output.

## 3. INPUT CHARACTERISTICS


### 3.1 INPUT VOLTAGE & FREQUENCY

	Minimum	Nominal	Maximum
Input Voltage	85Vac	100-240Vac	264Vac
Input Frequency	47Hz	50Hz/60Hz	63Hz

### 3.2 INPUT CURRENT

The maximum input current is 0.50A at nominal AC input voltage and full load.

### 3.3 INRUSH CURRENT

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The inrush current will not exceed 50A at 264Vac input for a cold start at 25°C.

### 3.4 STATIC LOSS


The static loss is less than 0.5W at normal input voltage.

### 3.5 EFFICIENCY

The efficiency shall be higher than 70% while measuring at 115VAC&230VAC input voltage@full load.

## 4. OUTPUT CHARACTERISTICS

Item	Model number	OUTPUT CHARACTERISTICS					notes
	LXCP12 series	Rated output voltage(V)	Output voltage range(V)	Rated output current(A)	Rated output power(W)	Over current protection (A)	
Model number	LXCP12-036	3.6	3.30~3.90	2.00	7.20	≤3.0	
	LXCP12-042	4.2	3.90~4.50	2.00	8.40	≤3.0	
	LXCP12-005	5.0	4.70~5.40	2.00	10.0	≤3.0	
	LXCP12-006	6.0	5.40~6.60	2.00	12.0	≤3.0	
	LXCP12-007	7.0	6.70~7.40	1.71	12.0	≤2.5	
	LXCP12-075	7.5	7.20~7.90	1.60	12.0	≤2.5	
	LXCP12-008	8.0	7.70~8.40	1.50	12.0	≤2.5	
	LXCP12-009	9.0	8.70~9.40	1.33	12.0	≤2.5	
	LXCP12-010	10.0	9.70~10.40	1.20	12.0	≤2.0	
	LXCP12-011	11.0	10.70~11.40	1.00	11.0	≤2.0	
	LXCP12-012	12.0	11.70~12.40	1.00	12.0	≤2.0	
	LXCP12-135	13.5	13.00~13.90	0.88	12.0	≤1.5	
	LXCP12-015	15.0	14.70~15.40	0.80	12.0	≤1.5	
load regulation	±8%						
voltage regulation	±2%						
overshoot	≤10%						ab value
Hold up time	≥5mS						@220VAC
Rise time	≤30mS						
Rated output power(MAX)	12W						
Efficiency	≥70%						
Over voltage protection	The power supply shall be stop when output voltage reaches its over-voltage condition trigger point. when the fault condition is removed the power supply shall not be self-recovering. The over voltage protection function is built-in the PWM IC of the power supply. Trigger point 105-130%Vout.						
Ripple and noise	less than 200mV series power supply outputs which measured by 20MHz bandwidth oscilloscope and terminated each output with a 0.1uF ceramic capacitor and a 10uF aluminum electrolytic capacitor .						
Over temperature	The power supply shall go into stop mode when the IC's temperature is over its trigger point. When IC temperature is lower than regulation value, the power supply shall be self-recovering.						

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Short circuit protection	The power supply shall withstand continuous current of short circuit on output no any damage. When the fault condition is removed the power supply shall be self-recovering.	
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## 5. ENVIRONMENTAL REQUIREMENTS

### 5.1 OPERATING CONDITION

The power supply shall be compliant with each item in this specification for the following environmental conditions.

Ambient Temperature	-10℃~40℃
Relative Humidity	20%~90%

### 5.2 STORAGE CONDITION

Ambient Temperature	-20℃~80℃
Relative Humidity	20%~90%

### 5.3 COOLING METHOD

Free air convection

### 5.4 ALTITUDE

Less than 5000m

## 6. ELECTROMAGNETIC COMPATIBILITY

Number	Item	Specifications	class	standards
1	CE	CLASS B	/	IEC/EN60601-1-2 YY0505 GB4824 EN55011, FCC Part 18
2	RE	CLASS B	/	IEC/EN60601-1-2 YY0505 GB4824 EN55011, FCC Part 18
3	SURGE	Line to line±1KV	A	IEC/EN60601-1-2 YY0505
		Line to GND±2KV	A	IEC/EN61000-4-5 GB17626.5
4	ESD	air discharge±15KV	A	IEC/EN60601-1-2 YY0505
		Contact discharge±8KV	A	IEC/EN61000-4-2 GB17626.2
5	EFT/B	±2KV (BURST FREQUENCY=100KHZ)	A	IEC/EN60601-1-2 YY0505 IEC/EN61000-4-4 GB17626.4

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6	DIP	Dropped to 0%Ut, last 5000ms(250cycle)	B	IEC/EN60601-1-2 YY0505 IEC/EN61000-4-11 GB17626.11
		Dropped to 30%Ut, last 500ms(25 cycle)	B	
		Dropped to 0%Ut, last 20ms(1 cycle)	B	
		Dropped to 0%Ut, last 10ms(0.5 cycle)	A	
7	RS	Test frequency: 80MHz~2700MHz; field intensity: 10V/m; Amplitude modulation: 80%AM(1KHz)	A	IEC/EN60601-1-2 YY0505 IEC/EN61000-4-3 GB17626.3
8	CS	Test frequency: 0.15MHz~80MHz; field intensity: 6V; Amplitude modulation: 80%AM(1KHz)	A	IEC/EN60601-1-2 YY0505 IEC/EN61000-4-6 GB17626.6
9	THD	CLASS A (in system)	/	IEC/EN60601-1-2 YY0505 IEC/EN61000-3-2 GB17625.1
10	Voltage Fluctuation and Flicker	Pst≤1.0; Plt≤0.65; Relative steady-state voltage variation dc under3.3%; Maximum relative voltage variation (dmax) under4%	/	IEC/EN60601-1-2 YY0505 IEC/EN61000-3-3 GB17625.2
11	Power Frequency Magnetic Field	30A/m	A	IEC/EN60601-1-2 YY0505 IEC/EN61000-4-8 GB17626.8

Note:

Performance criterion A: Normal performance within limits in this specification.

Performance criterion B: Temporary loss of some functions or degradation of performance. The recovering performance of which without operator intervention.

Performance criterion C: Temporary loss of function or degradation of performance .The recovering performance of which requires operator intervention.


Performance criterion D: Loss of function or degradation of performance which is not recoverable .Owing to damage of hardware , software, or loss of data.

## 7. MTBF

The power supply shall have a minimum predicted MTBF(MIL-STD-217F)of 100000 hours at normal operation condition and normal use.

## 8. MECHANICAL

### 8.1 CONNECTOR TYPE

AC INPUT	CE PLUG
DC OUTPUT	DC Cable 
DC OUTPUT	USB Standard port

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## 8.2 WEIGHT

The weight of the power supply shall be about 120g.

## 9. SAFETY

### 9.1 SAFETY STANDARD

The power supply is designed for indoor use to meet ICE 60601-1 and EN 60601-1 standards, and design for the following safety regulations.

	ITEM	COUNTRY	STANDARD
<input type="checkbox"/>	UL	USA	UL 60950-1/UL 60601-1
<input checked="" type="checkbox"/>	CE	EUROPE	EN 60950/IEC61000/CISPR 22
<input type="checkbox"/>	CB	WORLDWIDE	IEC 60601-1
<input checked="" type="checkbox"/>	TUV	GERMANY	IEC 60601-1
<input checked="" type="checkbox"/>	NRTL	CUSA	IEC 60601-1/UL 60601-1
<input type="checkbox"/>	GS	GERMANY	EN 60601-1
<input type="checkbox"/>	BS	ENGLAND	EN 60601-1
<input type="checkbox"/>	FCC	USA	Part 15 Subpart B Class B
<input type="checkbox"/>	CCC	CHINA	GB 4943/GB 9254/BG 17625

### 9.2 DIELECTRIC WITHSTAND VOLTAGE

Primary to Secondary: 4KVac 5mA for 60 seconds

### 9.3 LEAKAGE CURRENT

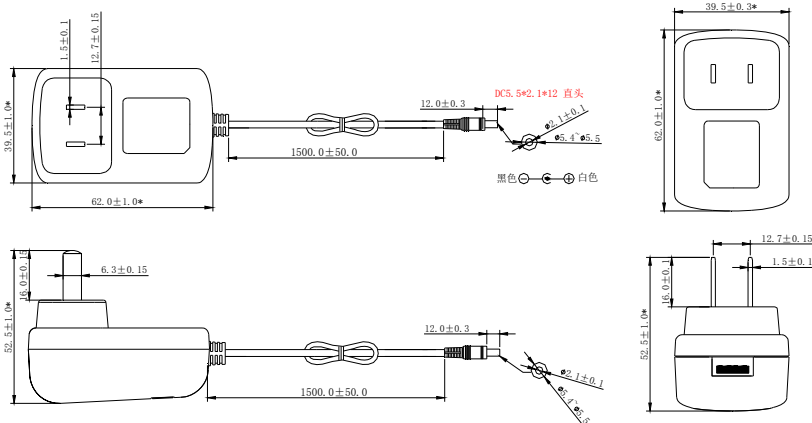
According to the class II with Leakage current less than 100uA.

## 10. OUTLINE AND LABEL ARTWORK(UNIT:mm)

AC Plug: CN /EU/UK/US/AUS



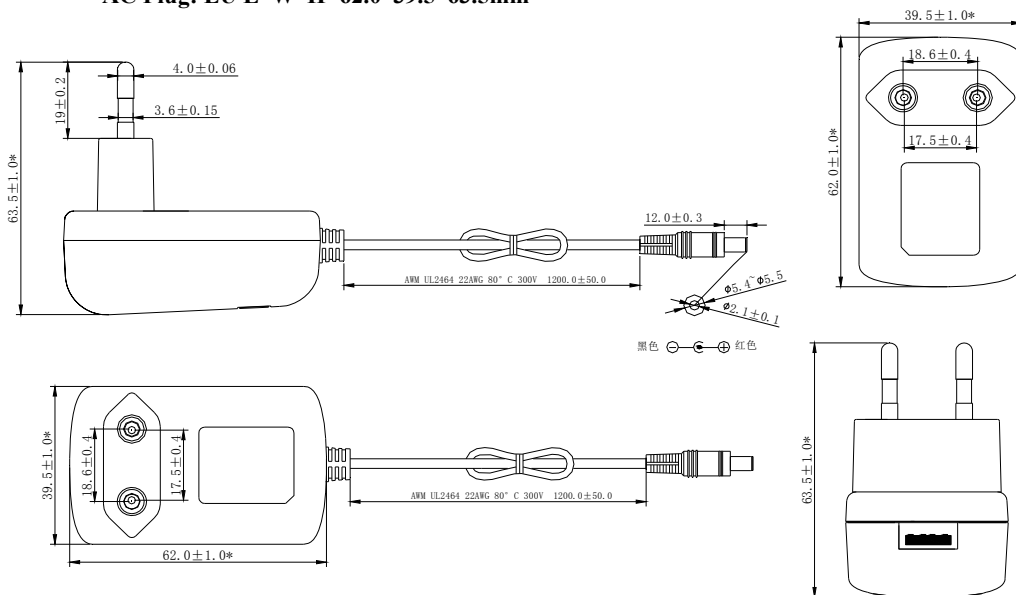
AC Plug:CN L\*W\*H=62.0\*39.5\*52.5mm



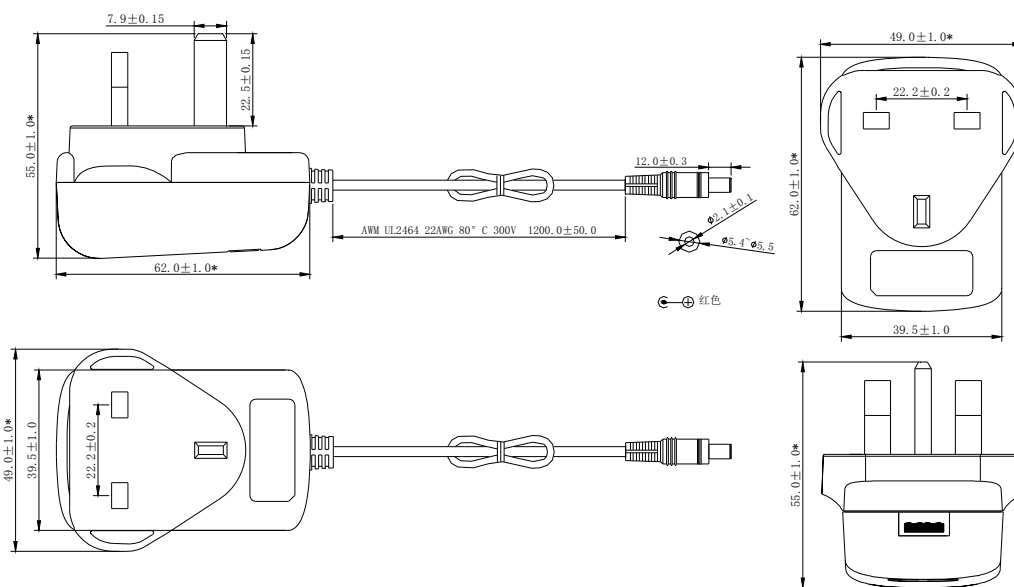


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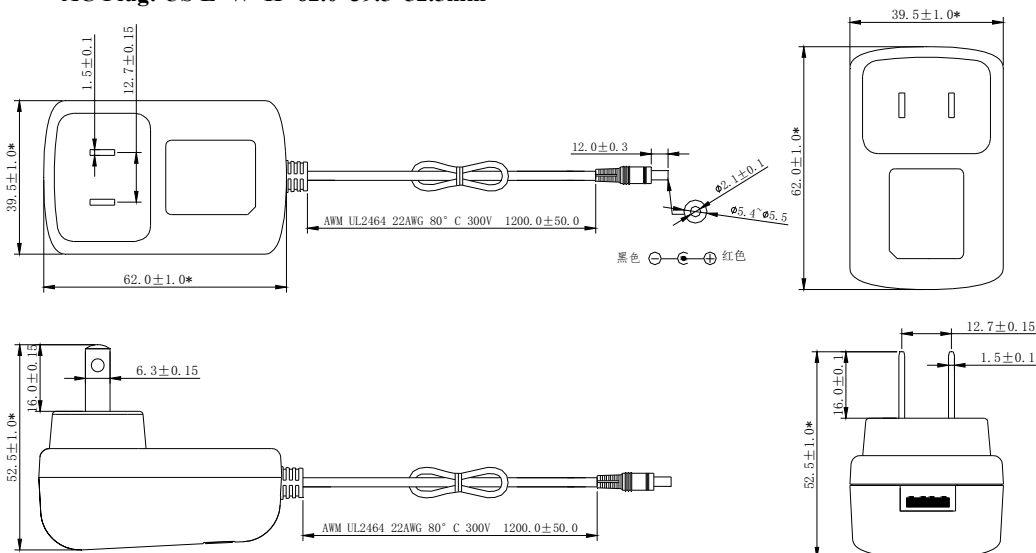
**AC Plug: EU L\*W\*H=62.0\*39.5\*63.5mm**



**AC Plug: UK L\*W\*H=62.0\*49.0\*55.0mm**

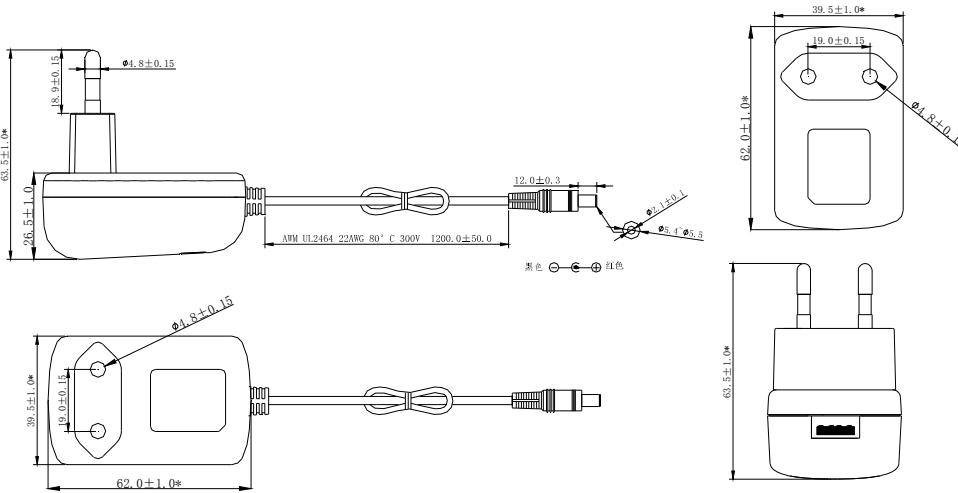


**AC Plug: US L\*W\*H=62.0\*39.5\*52.5mm**

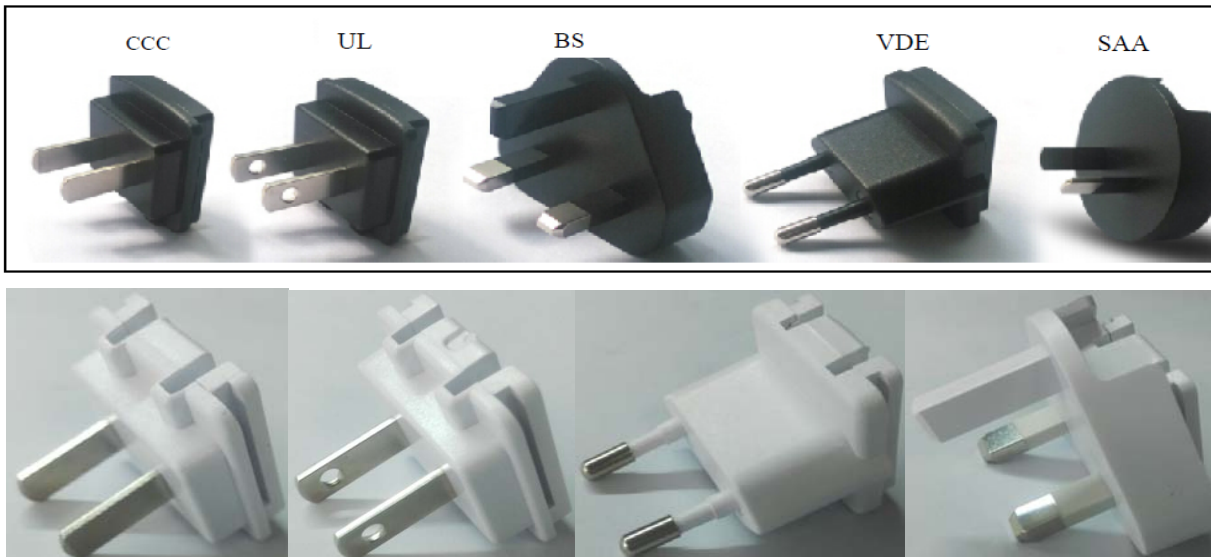


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AC Plug: US L\*W\*H=62.0\*39.5\*63.5mm































Optional input plug:



11. DC PLUG FIGURE(Detail information selection from file of LXC\_Dcline\_Library.xls)















12. NAMEPLATE (UNIT:mm)

<p>LXCP12-036200AEH</p> <p><b>Medical Adapter</b></p> <p>MODEL: LXCP12-036200AEH  </p> <p>INPUT: 100-240VAC</p> <p>50/60Hz 0.5A Max.</p> <p>OUTPUT: 3.6V <math>\approx</math> 2.0A </p> <p>   </p> <p>SN: XXXXXXXXXXXXXXXXX</p> <p>Shenzhen Longxc Power supply Co., LTD.</p>	<p>LXCP12-04200AEH</p> <p><b>Medical Adapter</b></p> <p>MODEL: LXCP12-042200AEH  </p> <p>INPUT: 100-240VAC</p> <p>50/60Hz 0.5A Max.</p> <p>OUTPUT: 4.2V <math>\approx</math> 2.0A </p> <p>   </p> <p>SN: XXXXXXXXXXXXXXXXX</p> <p>Shenzhen Longxc Power supply Co., LTD.</p>	<p>LXCP12-005200AEH</p> <p><b>Medical Adapter</b></p> <p>MODEL: LXCP12-005200AEH  </p> <p>INPUT: 100-240VAC</p> <p>50/60Hz 0.5A Max.</p> <p>OUTPUT: 5.0V <math>\approx</math> 2.0A </p> <p>   </p> <p>SN: XXXXXXXXXXXXXXXXX</p> <p>Shenzhen Longxc Power supply Co., LTD.</p>	<p>LXCP12-006200AEH</p> <p><b>Medical Adapter</b></p> <p>MODEL: LXCP12-006200AEH  </p> <p>INPUT: 100-240VAC</p> <p>50/60Hz 0.5A Max.</p> <p>OUTPUT: 6.0V <math>\approx</math> 2.0A </p> <p>   </p> <p>SN: XXXXXXXXXXXXXXXXX</p> <p>Shenzhen Longxc Power supply Co., LTD.</p>
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**Symbol explanation on nameplate:**

- : Series number
- : Direct current
- : The outside is negative
- : RoHS mark
- : Class II equipment, no earthing
- : In-door use only
- : TUV mark
- : NRTL mark
- : CE mark
- : Limited power source
- : Two-dimensional code
- : Environment protection- waste electrical products should not be disposed of with household waste.

Please follow local guidelines

**Nameplate:**

**Name rule:** LXCP 12-XXX YYY □ □ □

**LXCP:** Longxc Adapter

**12:** 12W series

**XXX:** Voltage output


**YYY:** Current output

**The First**□: Input plug type (A: CN,B: EU,C:UK, D: US ,O:AUS,

“X” means more plugs in A,B,C,D,O when the “d=F”)

**Second** □: Input plug type (E: Fixed plug F: detachable plug)

**The last**□: Output type (G: USB connector output H: fixed cord connector output)

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### 13. NOTICE

- The power supply shall be transported by cars,boats or aircraft and it should be pay attention to sun,moisture and handing in transit.
- At the termination of the products use,the power supply should be needed reasonable processing according to the requirements of the local government.

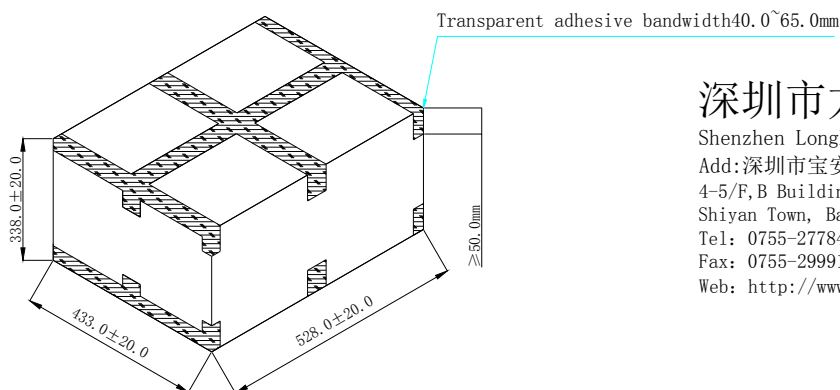
### 14. PACKING REQUIREMENT (UNIT: mm)

- Each power adaptor is packed in a PE bag
- After the PE bag is installed, the power adaptor is put into the blister disc one by one
- Packing Q'ty 120pcs/CTN (Size: 528.0\*433.0\*338.0mm)
- Outline just for reference

The cartons: 528.0×433.0×338.0mm

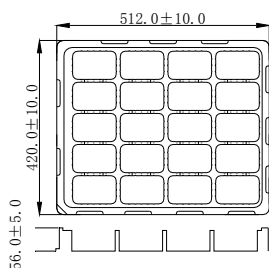
Weight: about 15kg/box

Box screen printing:



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 Add: 深圳市宝安区石岩街道应人石文韬科技园B栋4-5层  
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 Fax: 0755-29991201  
 Web: <http://www.longxc.com>



Blister tray

