

Shenzhen Longxc Power Supply Co.,Ltd.

(CUSTOMER) :

SPECIFICATION

MODEL NO.: LXCP12X SERIES

DOCUMENT NO.: LXC/RD-Spec-106

CUSTOMER NO.:

DATE: 2020-11-30

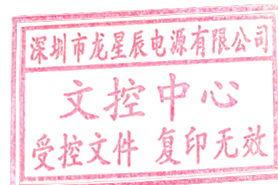
DESCRIPTION: 100-240VAC 50Hz/60Hz/3.6-13.6VDC0-14.0W

VERSION: V01


PLEASE RETURN US COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVAL SIGNATURES.

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

ShenZhen longxc power supply co.,ltd
 Tel: 0755-27784192 27864721
 Fax: 0755-29991201
<http://www.longxc.com>



	Approved by	Checked by	Prepared by
	張永梅 20.11.30	雷新华 2020.11.30	尹光博 2020.11.30

	深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
Specification/ LXCP12X SERIES		Page	3/12	Date	2020/11/30

CONTENTS NOTE

1	SCOPE	4
1.1	DESCRIPTION	4
2	MODEL NAME RULE.....	4
3	INPUT CHARACTERISTICS.....	4
3.1	INPUT VOLTAGE & FREQUENCY	4
3.2	INPUT CURRENT.....	4
3.3	INRUSH CURRENT	4
3.4	STATIC LOSS	4
3.5	EFFICIENCY	4
4	OUTPUT CHARACTERISTICS	5
5	ENVIRONMENTAL REQUIREMENTS	5
5.1	OPERATING CONDITION.....	5
5.2	STORAGE CONDITION.....	6
5.3	COOLING METHOD	6
5.4	ALTITUDE.....	6
6	ELECTROMAGNETIC COMPATIBILITY	6
7	MTBF.....	7
8	MECHANICAL	7
8.1	CONNECTOR TYPE.....	7
8.2	WEIGHT	7
9	SAFETY.....	7
9.1	SAFETY STANDARD.....	7
9.2	DIELECTRIC WITHSTAND VOLTAGE	8
9.3	LEAKAGE CURRENT.....	8
10	OUTLINE AND LABEL ARTWORK(UNIT:mm).....	8
11	DC PLUG FIGURE.....	10
12	NAMEPLATE	10
13	NOTICE	12
14	PACKING REQUIREMENT (UNIT: mm).....	12

 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106	
	Specification/ LXCP12X SERIES		Page	4/12	Date

1 SCOPE

1.1 DECRPTION

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

2 MODEL NAME RULE

LXCP12X-aaabbbcd:

-LXCP= Longxc medical adapter

-12X=Name of the series

- aaa= “036” _ “168” stands for the output voltage. “036” means 3.6V, “042” means 4.2V ,“050” means 5.0V, “060” means 6.0V, “075” means 7.5V ,“090” means 9V, “100” means 10.0V , “110” means 11.0V “120” means 12.0V , “135” means 13.5V “136” means 13.6V.

- bbb=3 digits with range of "010"- "225" step by 0.01A, which stands for output current. "001" means 0.01A "225" means 2.25A.

Details refer to the below table:

Model number	Output current range
LXCP12X-036bbcd	bbb="010"- "225",0.1A-2.25A step by 0.01A
LXCP12X-042bbcd	bbb="010"- "225",0.1A -2.25A step by 0.01A
LXCP12X-050bbcd	bbb="010"- "225",0.1A -2.25A step by 0.01A
LXCP12X-060bbcd	bbb="010"- "225",0.1A -2.25A step by 0.01A
LXCP12X-075bbcd	bbb="010"- "160",0.1A -1.6A step by 0.01A
LXCP12X-090bbcd	bbb="010"- "150",0.1A -1.5A step by 0.01A
LXCP12X-100bbcd	bbb="010"- "120",0.1A -1.2A step by 0.01A
LXCP12X-110bbcd	bbb="010"- "100"0.1A -1.0A step by 0.01A
LXCP12X-120bbcd	bbb="010"- "100",0.1A -1.0A step by 0.01A
LXCP12X-135bbcd	bbb="010"- "100",0.1A -1.0A step by 0.01A
LXCP12X-136bbcd	bbb="010"- "100"0.1A -1.0A step by 0.01A
LXCP12X-150bbcd	bbb="010"- "100"0.1A -1.0A step by 0.01A
LXCP12X-168bbcd	bbb="010"- "100"0.1A -0.9A step by 0.01A

-c= “A”, “B”, “C”, “D”, “I”, “O” stands for the plug type. “A” means CN plug, “B” means EU plug, “C” means UK plug, and “D” means US plug, “I” means JIS plug, “O” means AUS plug.

-d= “G” or “H” stands for output connector type. “G” means USB connector output. “H” means fixed cord connector output.

3 INPUT CHARACTERISTICS

3.1 INPUT VOLTAGE & FREQUENCY

	Minimum	Nominal	Maximum
Input Voltage	90Vac	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

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 0.2W at normal input voltage.

3.5 EFFICIENCY

 POWER[®] LONGX.C	深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
	Specification/ LXCP12X SERIES		Page	5/12	Date

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
	LXCP12Xseries	Rated output voltage(V)	Output voltage range(V)	Rated output current(A)	Rated output power(W)	
Model number	LXCP12X-036	3.6	3.10~4.00	2.25	8.10	
	LXCP12X-042	4.2	3.70~4.60	2.25	9.45	
	LXCP12X-050	5.0	4.50~5.40	2.25	11.25	
	LXCP12X-060	6.0	5.50~6.40	2.25	13.50	
	LXCP12X-075	7.5	7.00~7.90	1.60	12.00	
	LXCP12X-090	9.0	8.50~9.40	1.50	13.50	
	LXCP12X-100	10.0	9.50~10.40	1.20	12.00	
	LXCP12X-110	11.0	10.50~11.60	1.00	11.00	
	LXCP12X-120	12.0	11.50~12.40	1.00	12.00	
	LXCP12X-135	13.5	13.00~13.90	1.00	13.50	
	LXCP12X-136	13.6	13.10~14.00	1.00	13.60	
	LXCP12X-150	15.0	14.50~15.40	1.00	15.00	
	LXCP12X-168	16.8	16.20~17.20	0.90	15.12	
load regulation	±8%					
voltage regulation	±2%					
overshoot	±5%				ab value	
Hold up time	≥10 mS					
Efficiency	≥70%					
Over current protection(A)	110-200%Iout					
Over voltage protection(V)	105-130%Vout					
Ripple and noise	≤200mV (measured by 20MHz bandwidth oscilloscope and terminated each output with a 0.1uF ceramic capacitor and a10uF aluminum electrolytic capacitor)					
Over temperature protection	The power supply shall go into stop mode when the IC's temperature is over its trigger point and when IC temperature is lower than regulation value, the power supply shall be self-recovering.					
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.					

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%

 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
	Specification/ LXCP12X SERIES	Page	6/12	Date

5.2 STORAGE CONDITION

Ambient Temperature	-20℃~80℃
Relative Humidity	10%~90%

5.3 COOLING METHOD


Free air convection

5.4 ALTITUDE

Less than or equal to 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
6	DIP	Dropped to 0%Ut, last 5000ms(250cycle)	B	IEC/EN60601-1-2
		Dropped to 30%Ut, last 500ms(25 cycle)	B	YY0505
		Dropped to 0%Ut, last 20ms(1 cycle)	B	IEC/EN61000-4-11
		Dropped to 0%Ut, last 10ms(0.5 cycle)	A	GB17626.11
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

 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106	
	Specification/ LXCP12X SERIES		Page	7/12	Date

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;PIt≤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

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 IEC 60601-1 and EN 60601-1standards and for the following safety regulations.

	ITEM	COUNTRY	STANDARD
--	------	---------	----------

 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106	
	Specification/ LXCP12X SERIES		Page	8/12	Date

<input type="checkbox"/>	UL	USA	UL60950-1/UL60601-1
<input checked="" type="checkbox"/>	CE	EUROPE	EN60950-1/EN60601-1
<input checked="" type="checkbox"/>	CB	WORLDWIDE	IEC 60601-1
<input type="checkbox"/>	TUV	GERMANY	IEC60601-1
<input checked="" type="checkbox"/>	NRTL	CUSA	IEC60601-1/UL60601-1
<input type="checkbox"/>	GS	GERMANY	EN60601-1
<input type="checkbox"/>	BS	ENGLAND	EN60601-1
<input type="checkbox"/>	SAA	AUSTRALIA	AS/NZS6-1
<input type="checkbox"/>	CCC	CHINA	GB4943/GB9706

9.2 DIELECTRIC WITHSTAND VOLTAGE

Primary to Secondary: 4KVac for 60 seconds, 5mA(max)

9.3 LEAKAGE CURRENT

According to the class II with Leakage current less than 0.1mA.

10 OUTLINE AND LABEL ARTWORK(UNIT:mm)

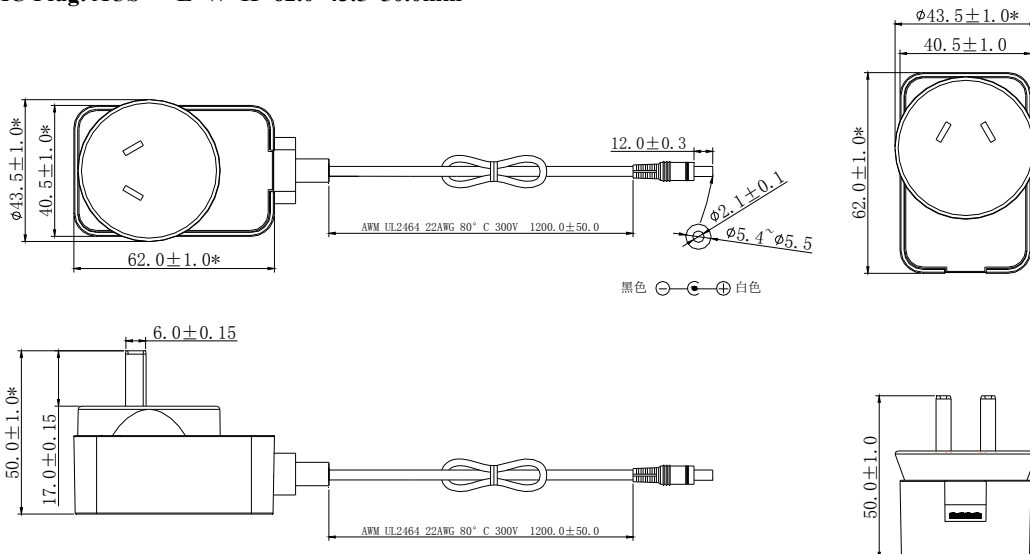
Picture of power product, as shown below:



Case surface: Matte

The dimension of the power supply, please see below

AC Plug: AUS L*W*H=62.0*43.5*50.0mm

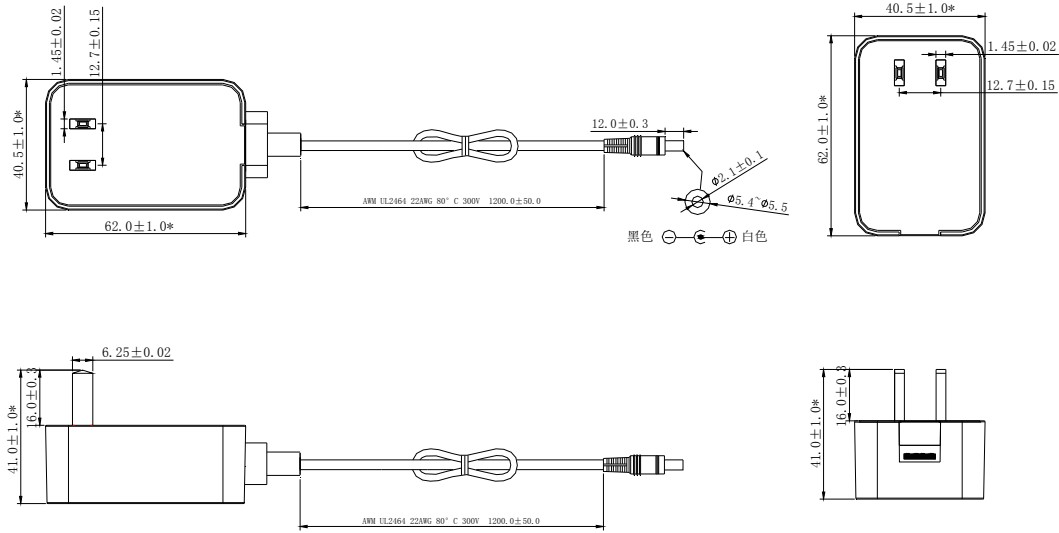




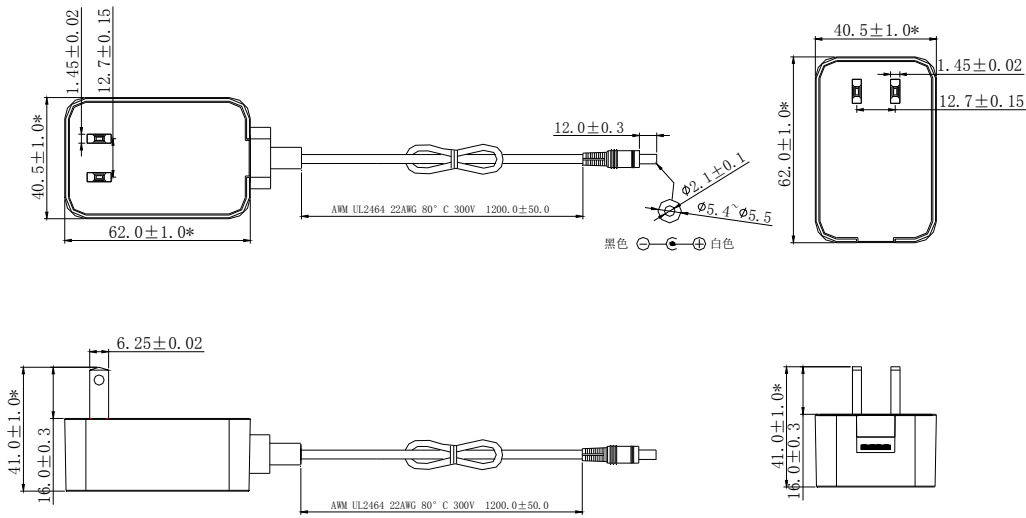
Rev.	V01	Document NO.	LXC/RD-Spec-106
Page	9/12	Date	2020/11/30

Specification/ LXCP12X SERIES

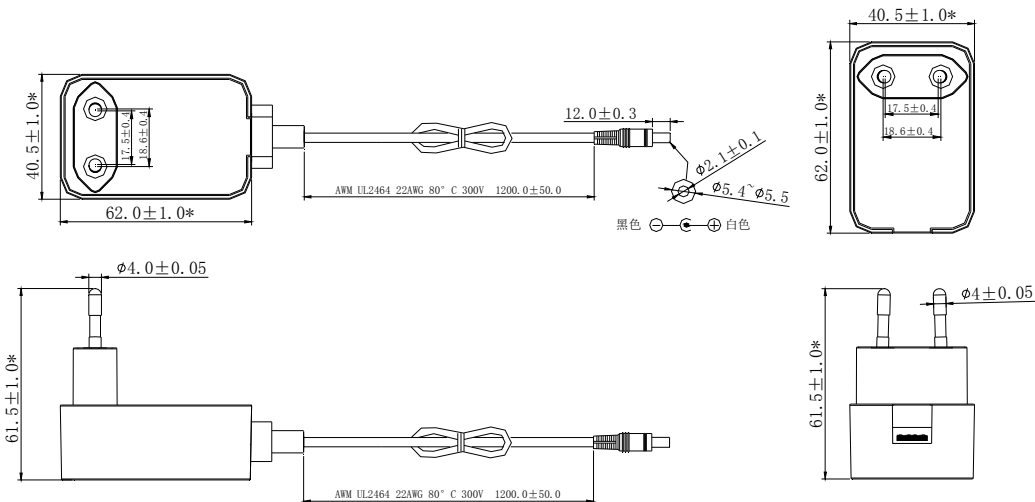
AC Plug: CN L*W*H=62.0*40.5*41.0mm



AC Plug: US L*W*H=62.0*40.5*41.0mm

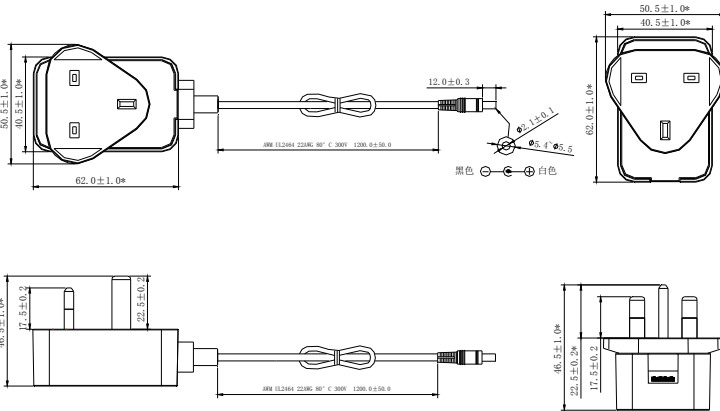


AC Plug: EU L*W*H=62.0*40.0*61.5mm



 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
	Specification/ LXCP12X SERIES	Page	10/12	Date

AC Plug: UK L*W*H=62.0*50.5*46.5mm



11 DC PLUG FIGURE(Detail information selection from file of LXC_Dcline_Library.xls)



Optional input plug:

The AC input line shall be required for VDE or UL certification.

12 NAMEPLATE

The label of the power supply, please see below

LXCP12X-036225

Medical Adapter
 MODEL: LXCP12X-036225AG
 INPUT: 100-240Vac:50/60Hz 0.5A Max
 OUTPUT: 3.6V \equiv 2.25A

RoHS LPS

TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.

LXCP12X-042225

Medical Adapter
 MODEL: LXCP12X-042225AG
 INPUT: 100-240Vac:50/60Hz 0.5A Max
 OUTPUT: 4.2V \equiv 2.25A

RoHS LPS

TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.

LXCP12X-050225

Medical Adapter
 MODEL: LXCP12X-050225AG
 INPUT: 100-240Vac:50/60Hz 0.5A Max
 OUTPUT: 5.0V \equiv 2.25A

RoHS LPS

TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.

LXCP12X-060225

Medical Adapter
 MODEL: LXCP12X-0602250DH
 INPUT: 100-240Vac: 50/60Hz 0.5A Max.
 OUTPUT: 6.0V \equiv 2.25A

RoHS LPS

TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.

LXCP12X-075160

Medical Adapter
 MODEL: LXCP12X-075160AG
 INPUT: 100-240Vac:50/60Hz 0.5A Max
 OUTPUT: 7.5V \equiv 1.6A

RoHS LPS

TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.

LXCP12X-090150


Medical Adapter
 MODEL: LXCP12X-090150AG
 INPUT: 100-240Vac:50/60Hz 0.5A Max
 OUTPUT: 9.0V \equiv 1.5A




RoHS LPS





TUV SUD CE

SN: XXXXXXXXXXXXXXXXXXXX
 Shenzhen Longxc Power Supply Co. , LTD.


 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
	Specification/ LXCP12X SERIES	Page	11/12	Date




Medical Adapter
MODEL: LXCP12X-100120AG
INPUT: 100-240Vac: 50/60Hz 0.5A Max
OUTPUT: 10.0V  1.2A










SN: XXXXXXXXXXXXXXXXXXXX
Shenzhen Longxc Power Supply Co., LTD.




Medical Adapter
MODEL: LXCP12X-110100AG
INPUT: 100-240Vac: 50/60Hz 0.5A Max
OUTPUT: 11.0V  1.0A









SN: XXXXXXXXXXXXXXXXXXXX
Shenzhen Longxc Power Supply Co., LTD.

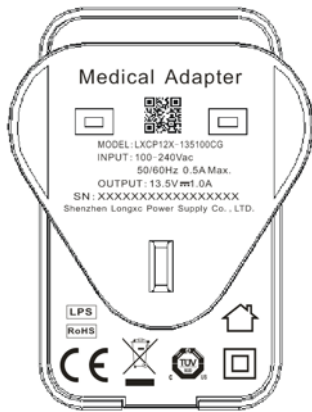
Medical Adapter
MODEL: LXCP12X-120100AG
INPUT: 100-240Vac: 50/60Hz 0.5A Max
OUTPUT: 12.0V  1.0A

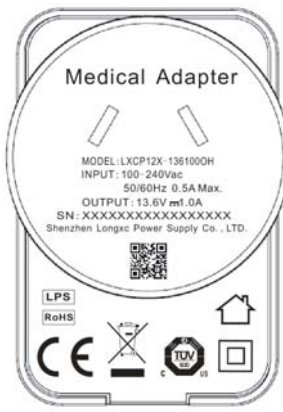





SN: XXXXXXXXXXXXXXXXXXXX
Shenzhen Longxc Power Supply Co., LTD.

LXCP12X-135100




LXCP12X-136100



Symbol explanation on nameplate:

SN: Series Number


: RoHS mark

: Class II equipment, earth-free

: NRTL mark

: Two-dimensional code



: Environment protection- waste electrical products should not be disposed of with household waste. Please follow the local government guidelines


: Direct current

: Limited power source

: In-door use only

: CE mark

This content radium is carved in the shell, the outer frame does not use radium

 POWER[®] LONGXC	深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-106
	Specification/ LXCP12X SERIES		Page	12/12	Date

Name rule: LXCP 12X-aaa bbb □ □

LXCP: Longxc Adapter

12X: 12W series

aaa: Voltage output

bbb: Current output

The First□: Input plug type (A: CN B: EU C:UK D: US I:JIS K:BR L:KR O:AUS)

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

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.

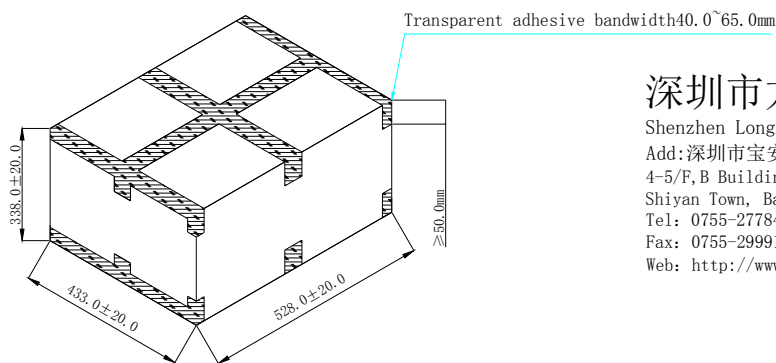
14 PACKING REQUIREMENT (UNIT: mm)

- Each power adapter is packed in a PE bag
- Packing Q'ty 120pcs/CTN (Size: 528.0*423.0*338.0mm)
- Outline just for reference
- weigh about 15kg

The cartons: 528.0×423.0×338.0mm

Weight: about 15kg/box

Box screen printing:



深圳市龙星辰电源有限公司

Shenzhen LongXC Power Supply Co., LTD.

Add: 深圳市宝安区石岩街道应人石文韬科技园B栋4-5层

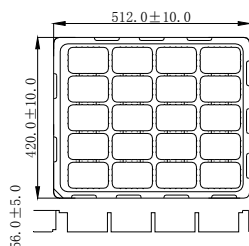
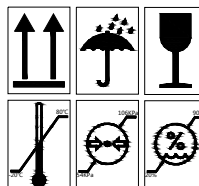
4-5/F,B Building, Yingrenshi Community, Wentao Science Park,

Shiyan Town, Bao'an, Shenzhen, China

Tel: 0755-27784192 27864721

Fax: 0755-29991201

Web: <http://www.longxc.com>



Blister tray