



Shenzhen Longxc Power Supply Co.,Ltd.

(CUSTOMER) :

SPECIFICATION

MODEL NO.: LXCP30A SERIES

DOCUMENT NO.: LXC/RD-Spec-027

CUSTOMER NO.:

DATE: 2021-01-11

DESCRIPTION: 100-240VAC 50Hz/60Hz/5.0-24.0VDC/0-30.0W

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
	张永福 21.1.22	雷新第 2021.1.16	尹辉 2021.1.16

	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-027
Specification/ LXCP30A SERIES		Page	3/11	Date	2021/01/11

CONTENTS NOTE

1.	SCOPE	4
	1.1 DECRPTION	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	4
5.	ENVIRONMENTAL REQUIREMENTS	5
	5.1 OPERATING CONDITION	5
	5.2 STORAGE CONDITION.....	5
	5.3 COOLING METHOD	5
	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.....	7
	9.3 LEAKAGE CURRENT	8
10.	OUTLINE AND LABEL ARTWORK(UNIT:mm)	8
11.	DC CORD PLUG	10
12.	NAMEPLATE (UNIT:mm)	10
13.	NOTICE.....	11
14.	PACKING REQUIREMENT (UNIT:mm)	11

 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-027
	Specification/ LXCP30A SERIES	Page	4/11	Date

1. SCOPE

1.1 DECRPTION

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

2. MODEL NAME RULE

LXCP30-aaa:

-LXCP= Longxc medical adapter

-30=Name of the series

- aaa="050" _ "240" stands for the output condition. "050" means 5.0V, "075" means 7.5V, "090" means 9.0V, "120" means 12.0V, "150" means 15.0V, "168" means 16.8V, "180" means 18.0V, "190" means 19.0V "200" means 20.0V. "240" means 24.0V..

Details refer to the below table:

Model name	Rated output voltage(Vdc)	Output current(A)	Rated output power(W)
LXCP30A-050	5.0	3.00	15.0
LXCP30A-075	7.5	3.00	22.5
LXCP30A-090	9.0	3.00	27.0
LXCP30A-120	12.0	2.50	30.0
LXCP30A-126	12.6	2.50	31.5
LXCP30A-150	15.0	2.00	30.0
LXCP30A-168	16.8	1.78	30.0
LXCP30A-180	18.0	1.67	30.0
LXCP30A-190	19.0	1.58	30.0
LXCP30A-200	20.0	1.50	30.0
LXCP30A-240	24.0	1.25	30.0

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 max 0.8A at 240Vac .

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 0.5W at normal input voltage.

3.5 EFFICIENCY

The efficiency (watts out / watts in) shall be higher than 80% Typically while measuring at nominal line and maximum load, test in 1 minute after power on.

4. OUTPUT CHARACTERISTICS

 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-027	
	Specification/ LXCP30A SERIES		Page	5/11	Date

Item	Model	OUTPUT CHARACTERISTICS							notes
	LXCP30A series	Rated output voltage(V)	Output voltage range(V)	Rated output current(A)	Rated output power(W)	Over current protection(A)	Over voltage protection(V)	Efficiency (%)	
Model number	LXCP30A-050	5.0	4.40~5.60	3.00	15.0	≤6.0	≤10.0	70	
	LXCP30A-075	7.5	6.90~8.10	3.00	22.5	≤5.0	≤14.5	70	
	LXCP30A-090	9.0	8.40~9.60	3.00	27.0	≤5.0	≤16.0	72	
	LXCP30A-120	12.0	11.40~12.60	2.50	30.0	≤4.0	≤20.0	80	
	LXCP30A-126	12.6	12.20~13.00	2.50	31.5	≤4.0	≤20.0	80	
	LXCP30A-150	15.0	14.40~15.60	2.00	30.0	≤3.0	≤22.0	80	
	LXCP30A-168	16.8	16.20~17.40	1.78	30.0	≤3.0	≤22.4	80	
	LXCP30A-180	18.0	17.40~18.60	1.67	30.0	≤2.6	≤25.0	80	
	LXCP30A-190	19.0	18.40~19.60	1.58	30.0	≤2.5	≤26.0	80	
	LXCP30A-200	20.0	19.40~20.60	1.50	30.0	≤2.3	≤28.0	80	
	LXCP30A-240	24.0	23.40~24.60	1.25	30.0	≤2.0	≤35.0	80	
load regulation	±5%								
voltage regulation	±3%								
overshoot	≤5%								ab value
Hold up time	≥10 mS								
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 any damage and 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%

5.2 STORAGE CONDITION

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

5.3 COOLING METHOD

Free air convection


 POWER[®] LONG.X.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-027
	Specification/ LXCP30A SERIES	Page	6/11	Date

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
6	DIP	Dropped to 0%Ut, last 5000ms(250cycle)	B	IEC/EN60601-1-2 YY0505
		Dropped to 30%Ut, last 500ms(25 cycle)	B	IEC/EN61000-4-11
		Dropped to 0%Ut, last 20ms(1 cycle)	B	GB17626.11
		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	CLASSA(in system)	/	IEC/EN60601-1-2 YY0505 IEC/EN61000-3-2 GB17625.1

 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-027	
	Specification/ LXCP30A SERIES		Page	7/11	Date

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 

8.2 WEIGHT

The weight of the power supply shall be about 195g.

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/IEC60601-1/CISPR 22
<input type="checkbox"/>	TUV	GERMANY	IEC 60601-1
<input 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



Rev.	V01	Document NO.	LXC/RD-Spec-027
Page	8/11	Date	2021/01/11

Specification/ LXCP30A SERIES

9.3 LEAKAGE CURRENT

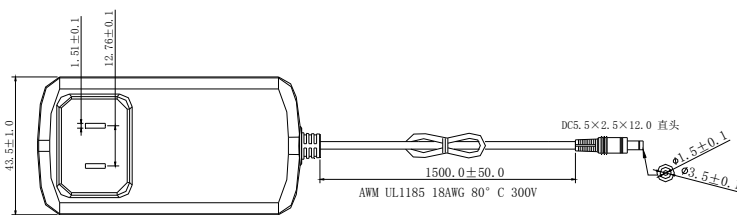
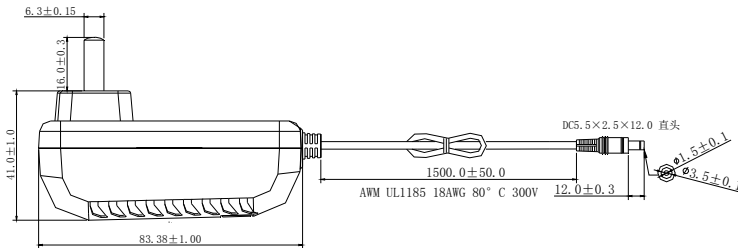
According to the class II with Leakage current less than 100uA.

10. OUTLINE AND LABEL ARTWORK(UNIT:mm)

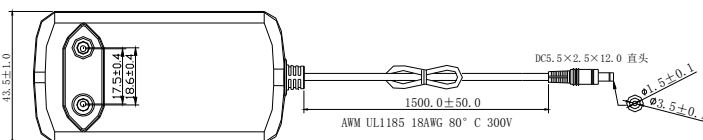
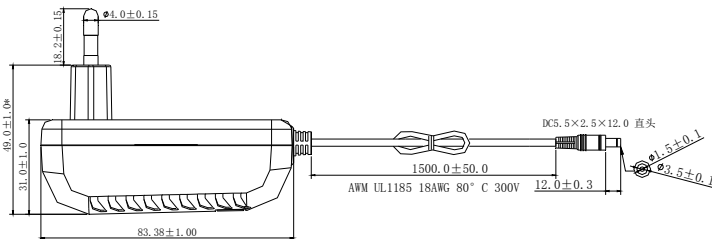
AC Plug: CN /EU/UK/US/AUS L*W*H=93.5*46.5*44.5mm



AC Plug:CN L*W*H=83.38*43.5*57.0mm

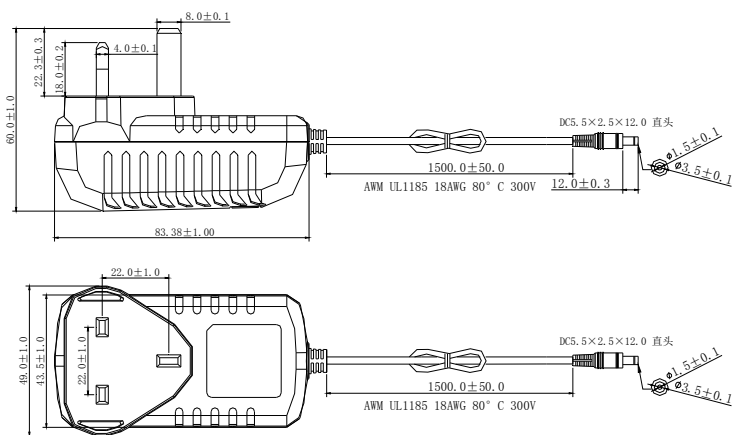


AC Plug: EU L*W*H=83.38*43.5*67.2mm

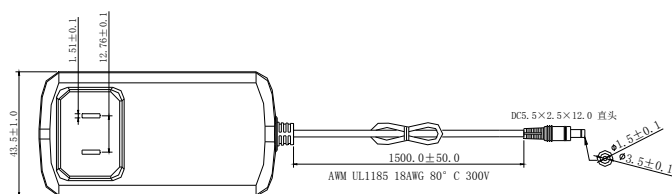
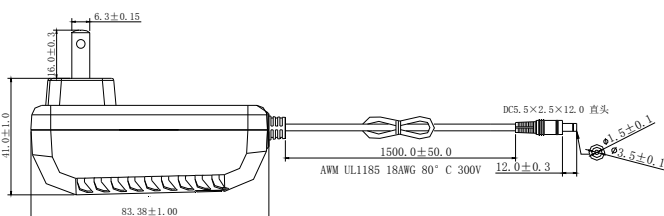


 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-027	
	Specification/ LXCP30A SERIES		Page	9/11	Date

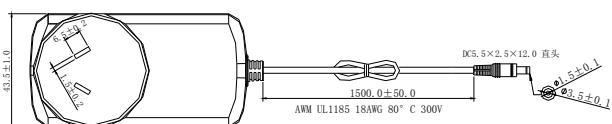
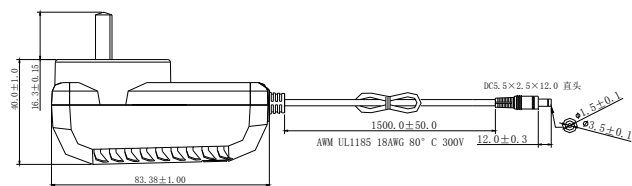
AC Plug: UK L*W*H=83.38*60.0*49.0mm



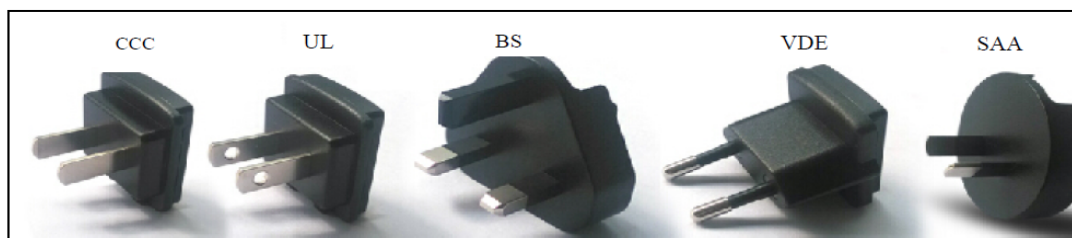
AC Plug: US L*W*H=62*39.5*52.5mm



AC Plug: AUS L*W*H=62*39.5*63.5mm



Optional input plug:



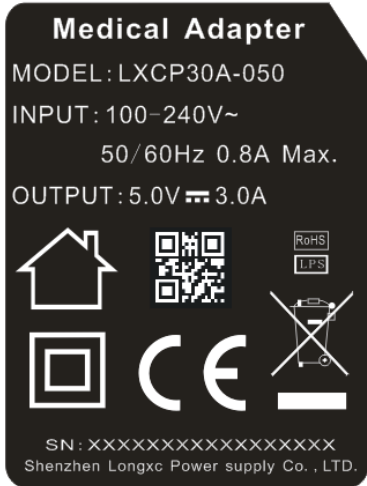
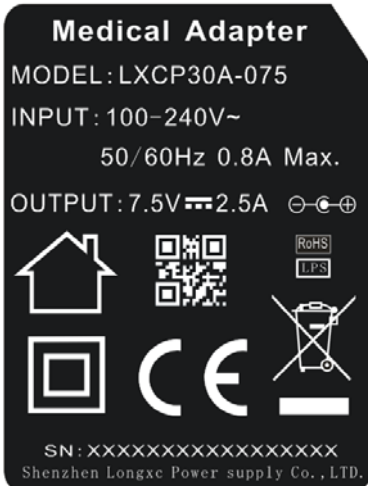
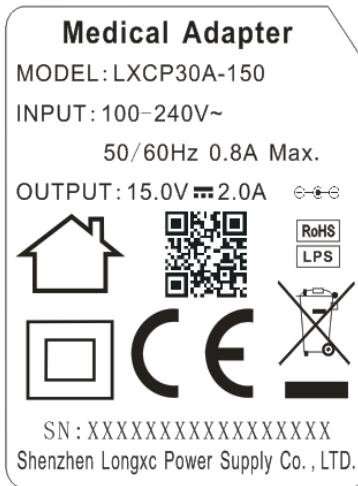
 深圳市龙星辰电源有限公司 Shenzhen Longxc Power Supply Co.,LTD	Rev.	V01	Document NO.	LXC/RD-Spec-027	
	Specification/ LXCP30A SERIES		Page	10/11	Date













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



12. NAMEPLATE (UNIT:mm)

LXCP30A-050	LXCP30A-075	LXCP30A-150
		

Symbol explanation on nameplate:

- : Series number
- : Direct current
- : The outside is negative
- : RoHS mark
- : Class II equipment, earth-free
- : Limited power source
- : In-door use only
- : CE mark
- : Two-dimensional code
- : Environment protection- waste electrical products should not be disposed of with household waste. Please follow local guidelines

 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-027
	Specification/ LXCP30A SERIES	Page	11/11	Date

Nameplate:

Name rule: LXCP 30A-XXX

LXCP: Longxc Adapter

30A: 30W series

XXX: Voltage output

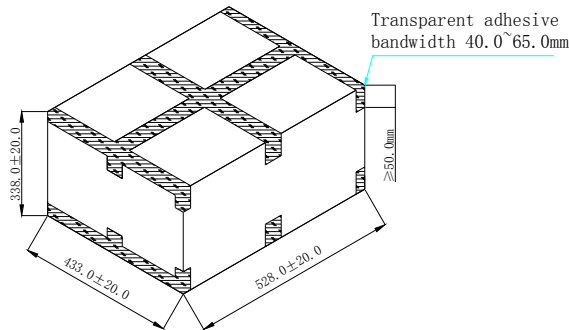
13. NOTICE

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

14. PACKING REQUIREMENT (UNIT:mm)

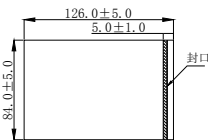
- Each power adapter is packed in a PE bag
- After the PE bag is installed, the power adaptor is put into the blister disc one by one
- Packing Q'ty 100pcs/CTN (Size: 528.0*433.0*338.0mm)
- Outline just for reference

The cartons: 528.0×433.0×338.0mm
 20 sets/floor ×5=100sets/box
 Weight: about 19kg/box

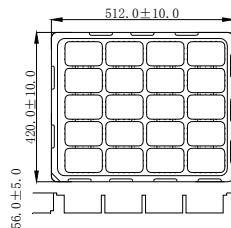


Box screen printing:

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,
 Shiyao Town, Bao'an, Shenzhen, China
 Tel: 0755-27784192 27864721
 Fax: 0755-29991201
 Web: <http://www.longxc.com>



LDPE bag



Blister tray

