



Shenzhen Longxc Power Supply Co.,Ltd.

(CUSTOMER) :

SPECIFICATION

MODEL NO.: LXCP400/LXCP400(II)SERIES

DOCUMENT NO.: LXC/RD-Spec-054

CUSTOMER NO.:

DATE: 2021.02.23

DESCRIPTION: 100-240VAC/50Hz/60Hz/5.0-48.0VDC/0-250.0W

VERSION: V01

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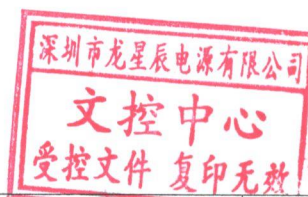
	"√"	CUSTOMER'S SIGNATURE	NOTE
FULL APPROVED			
CONDITIONAL APPROVED			
REJECTED			

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	Specification/ LXCP400 /LXCP400(II)SERIES		Page	3/10	Date

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.....	5
3.3	INRUSH CURRENT	5
3.4	STATIC LOSS	5
3.5	EFFICIENCY	5
4	OUTPUT CHARACTERISTICS	5
5	ENVIRONMENTAL REQUIREMENTS	6
5.1	OPERATING CONDITION.....	6
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	8
9	SAFETY.....	8
9.1	SAFETY STANDARD.....	8
9.2	DIELECTRIC WITHSTAND VOLTAGE	8
9.3	LEAKAGE CURRENT.....	8
10	OUTLINE AND LABEL ARTWORK(UNIT:mm).....	8
11	DC PLUG FIGURE.....	9
12	NAMEPLATE	9
13	LNOTICE.....	10
14	PACKING REQUIREMENT (UNIT:mm).....	10

 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-054
	Specification/ LXCP400 /LXCP400(II)SERIES	Page	4/10	Date

1 SCOPE

1.1 DECRPTION

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

2 MODEL NAME RULE

LXCP400-aaa:

LXCP400(II)-aaa:

-LXCP= Longxc medical adapter

-400=Name of the series

-(II)= Class II equipment

- aaa="009" _ "168"stands for the output condition. "009" means 9.0V "012" means 12.0V, "015" means 15.0V, "168" means 16.8V ,"018" means 18.0V, "019" means 19.0V, "020" means 20.0V , "024" means 24.0V , "026" means 26.0V, "028" means 28.0V, "030" means 30.0V "032" means 32.0V "036" means 36.0V, "038" means 38.0V ,"042" means 42.0V and "048" means 48.0V.

Model number		Output voltage (V)	Rated output current (A)	Rated output power(W)
LXCP400-009	LXCP400(II)-009	9.0	22.0	198
LXCP400-012	LXCP400(II)-012	12.0	18.5	222
LXCP400-015	LXCP400(II)-015	15.0	15.0	225
LXCP400-168	LXCP400(II)-168	16.8	13.0	220
LXCP400-018	LXCP400(II)-018	18.0	12.3	220
LXCP400-019	LXCP400(II)-019	19.0	11.6	220
LXCP400-020	LXCP400(II)-020	20.0	11.0	220
LXCP400-024	LXCP400(II)-024	24.0	9.2	220
LXCP400-026	LXCP400(II)-026	26.0	8.5	220
LXCP400-028	LXCP400(II)-028	28.0	8.0	220
LXCP400-030	LXCP400(II)-030	30.0	7.0	220
LXCP400-032	LXCP400(II)-032	32.0	7.4	220
LXCP400-036	LXCP400(II)-036	36.0	6.2	220
LXCP400-038	LXCP400(II)-038	38.0	5.8	220
LXCP400-040	LXCP400(II)-040	40.0	5.5	220
LXCP400-042	LXCP400(II)-042	42.0	5.3	220
LXCP400-046	LXCP400(II)-046	46.0	4.8	220
LXCP400-048	LXCP400(II)-048	48.0	4.6	220

Remark:

LXCP400-aaa: For Class I Product, the Earth leakage current less than 300uA at 264Vac,60Hz.

LXCP400(II)-aaa For Class II Product , the Earth leakage current less than 100uA at 264Vac,60Hz.

3 INPUT CHARACTERISTICS

3.1 INPUT VOLTAGE & FREQUENCY

	Minimum	Nominal	Maximum
Input Voltage	90Vac	100-240Vac	264Vac
Input Frequency	47Hz	50Hz/60Hz	63Hz

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	Specification/ LXCP400 /LXCP400(II)SERIES	Page	5/10	Date

3.2 INPUT CURRENT

The maximum input current is 6.5A 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 0.5W at normal input voltage.

3.5 EFFICIENCY

The efficiency shall be higher than 90% while measuring at 115VAC&230VAC input voltage, full load.

4 OUTPUT CHARACTERISTICS

Item	Model number		OUTPUT CHARACTERISTICS				notes
	LXCP400 series	LXCP400(II) series	Rated output voltage(V)	Output voltage range(V)	Rated output current(A)	Rated output power(W)	
Model number	LXCP400-009	LXCP400(II)-009	9.0	8.40~9.60	22.00	198	
	LXCP400-012	LXCP400(II)-012	12.0	11.40~12.60	18.50	222	
	LXCP400-015	LXCP400(II)-150	15.0	14.40~15.60	15.00	225	
	LXCP400-168	LXCP400(II)-168	16.8	16.20~17.40	13.00	220	
	LXCP400-018	LXCP400(II)-018	18.0	17.40~18.60	12.30	220	
	LXCP400-019	LXCP400(II)-019	19.0	18.40~19.60	11.60	220	
	LXCP400-020	LXCP400(II)-020	20.0	19.40~20.60	11.00	220	
	LXCP400-024	LXCP400(II)-024	24.0	23.40~24.60	9.20	220	
	LXCP400-026	LXCP400(II)-026	26.0	25.40~26.60	8.50	220	
	LXCP400-028	LXCP400(II)-028	28.0	27.40~28.60	8.00	220	
	LXCP400-030	LXCP400(II)-030	30.0	29.40~30.60	7.00	220	
	LXCP400-032	LXCP400(II)-032	32.0	31.40~32.60	7.40	220	
	LXCP400-036	LXCP400(II)-036	36.0	35.40~36.60	6.20	220	
	LXCP400-038	LXCP400(II)-038	38.0	37.40~38.60	5.80	220	
	LXCP400-040	LXCP400(II)-040	40.0	39.40~40.60	5.50	220	
	LXCP400-420	LXCP400(II)-042	42.0	41.40~42.60	5.30	220	
	LXCP400-046	LXCP400(II)-046	46.0	45.40~46.60	4.80	220	
LXCP400-048	LXCP400(II)-048	48.0	47.40~48.60	4.60	220		
load regulation	±2%						
voltage regulation	±2 %						
overshoot	≤5%						ab alue
Hold up time	≥10mS						@220VA
Efficiency	≥90						
Over current protection(A)	≤110~150%Iout						

 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-054
	Specification/ LXCP400 /LXCP400(II)SERIES	Page	6/10	Date

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	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%

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

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	Specification/ LXCP400 /LXCP400(II)SERIES		Page	7/10	Date

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
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
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 specified by the manufacturer, requestor or purchaser

Performance criterion B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator interventio

Performance criterion C: Temporary loss of function or degradation of performance, the correction of which requires operator intervention

Performance criterion D: Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or 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

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	Specification/ LXCP400 /LXCP400(II)SERIES	Page	8/10	Date

AC INPUT	CE PLUG
DC OUTPUT	DC Cable 

8.2 WEIGHT

The weight of the power supply shall be about 1150g.

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
<input type="checkbox"/>	UL	USA	UL60950-1/UL60601-1
<input checked="" type="checkbox"/>	CE	EUROPE	EN60950-1/EN60601-1
<input type="checkbox"/>	CB	WORLDWIDE	IEC 60601-1
<input type="checkbox"/>	TUV	GERMANY	IEC60601-1
<input 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)

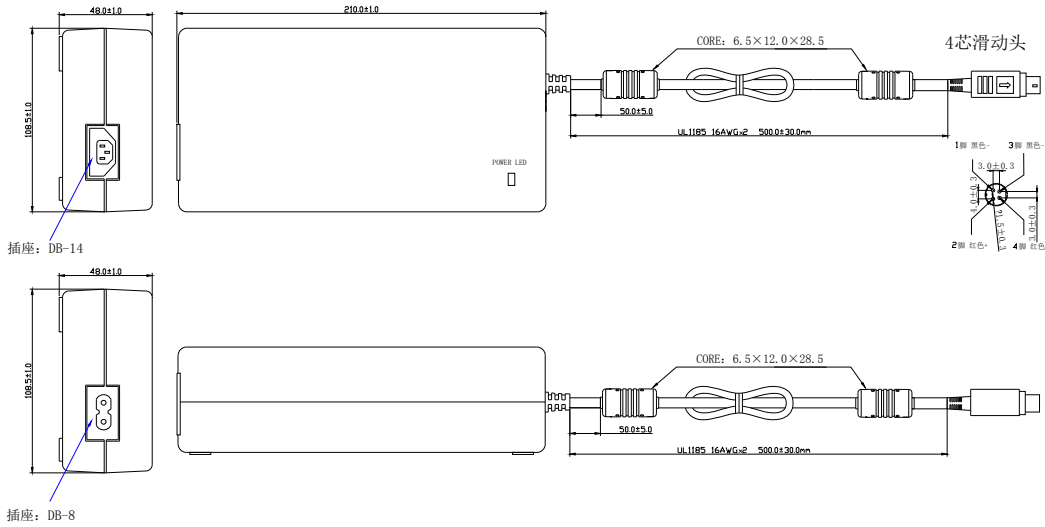
9.3 LEAKAGE CURRENT

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

10 OUTLINE AND LABEL ARTWORK(UNIT:mm)



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	Specification/ LXCP400 /LXCP400(II)SERIES	Page	9/10	Date



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



Optional input plug:

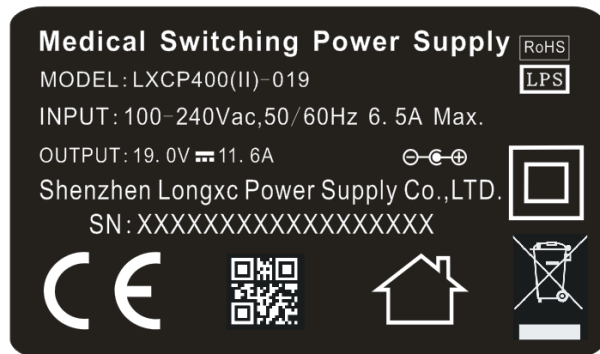
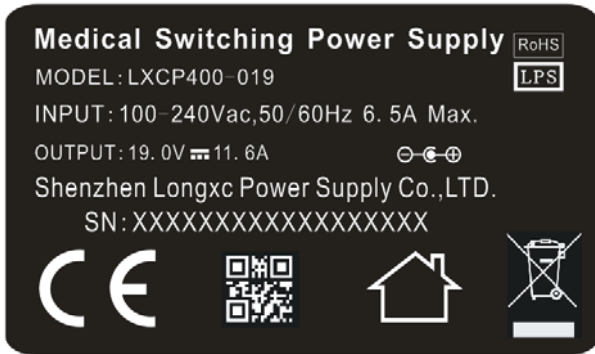
The AC input line shall be required for VDE or UL certification.

12 NAMEPLATE

The label of the power supply, please see below

LXCP400-019

LXCP400 (II)-019




Symbol explanation on nameplate:


: direct current

: RoHS mark

: DC Cable

: limited power source

: class II equipment, earth-free

: in-door use only

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	Specification/ LXCP400 /LXCP400(II)SERIES	Page	10/10	Date



: CE mark



: Two-dimensional code



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

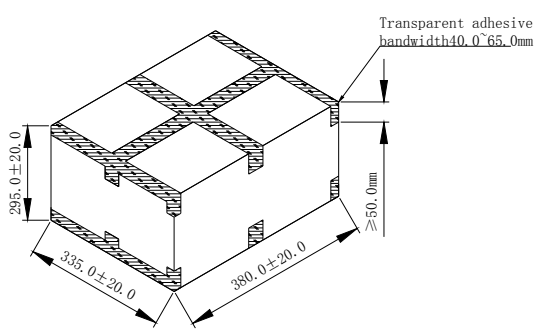
13 LNOTICE

- 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 the products need to be reasonable processed according to the requirements of the local government.

14 PACKING REQUIREMENT (UNIT:mm)

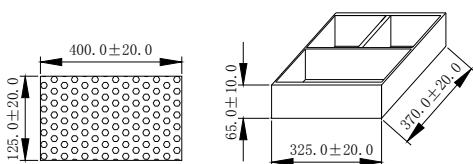
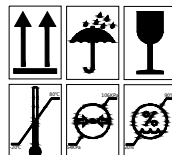
- Each power adapter is packed in a bubble bag
- Packing Q'ty 9pcs/CTN (Size: 380.0*335.0*295.0mm)
- weigh about 10Kg
- Outline just for reference

The cartons: 380.0×335.0×295.0mm
 3sets/floor×3=9sets/box
 Weight: about10kg/box



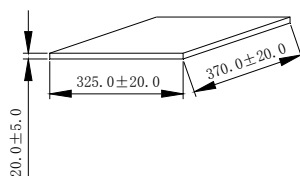
Box screen printing:

深圳市龙星辰电源有限公司
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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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Bubble bag

Pearl cotton



Pearl cotton board