



Shenzhen Longxc Power Supply Co.,Ltd.

(CUSTOMER) :

# SPECIFICATION

MODEL NO.: LXCP40/LXCP40(II)SERIES

DOCUMENT NO.: LXC/RD-Spec-025

CUSTOMER NO.:

DATE: 2018-03-17

DESCRIPTION: INPUT:100-240VAC 50Hz/60Hz;  
OUTPUT:5-48VDC/20-40W

VERSION: V01

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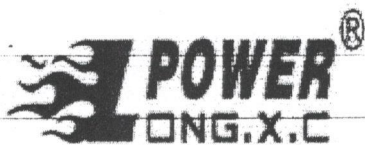
	"√"	CUSTOMER'S SIGNATURE	NOTE
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Specification/ <b>LXCP40/LXCP40(II) SERIES</b>		Page	3/9	Date	2018/03/17

**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 .....	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.....	8
12	NAMEPLATE .....	9
13	LNOTICE.....	9
14	PACKING REQUIREMENT (UNIT:mm).....	9

 <b>深圳市龙星辰电源有限公司</b> <b>Shenzhen Longxc Power Supply Co.,LTD</b>	Rev.	V01	Document NO.	LXC/RD-Spec-025
	Specification/ LXCP40/LXCP40(II) SERIES	Page	4/9	Date

## 1 SCOPE

### 1.1 DECIPTION

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

## 2 MODEL NAME RULE

LXCP40-aaabbb:

LXCP40(II)-aaabbb:

-LXCP= Longxc medical adapter

-40=Name of the series

- (II)= Class II equipment

- aaa="005" \_ "168" stands for the output voltage. "005" means 5.0V, "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, "040" means 40.0V, "042" means 42.0V, "046" means 46.0V, "048" means 48.0V.

- bbb=3 digits with range of "000"-"400"step by 1, which stands for output current. "100" means 1.0A, "400" means 4.0A. Details refer to the below table:

Model number	Model number	Output current range
LXCP40-005bbb	LXCP40(II)-005bbb	bbb="000"-"400",0A-4.0A step by 0.01A
LXCP40-009bbb	LXCP40(II)-009bbb	bbb="000"-"350",0A -3.5A step by 0.01A
LXCP40-012bbb	LXCP40(II)-012bbb	bbb="000"-"333",0A -3.33A step by 0.01A
LXCP40-015bbb	LXCP40(II)-015bbb	bbb="000"-"267",0A -2.67A step by 0.01A
LXCP40-168bbb	LXCP40(II)-168bbb	bbb="000"-"238",0A -2.38A step by 0.01A
LXCP40-018bbb	LXCP40(II)-018bbb	bbb="000"-"222",0A -2.22A step by 0.01A
LXCP40-019bbb	LXCP40(II)-019bbb	bbb="000"-"210",0A -2.10A step by 0.01A
LXCP40-020bbb	LXCP40(II)-020bbb	bbb="000"-"200",0A -2.0A step by 0.01A
LXCP40-024bbb	LXCP40(II)-024bbb	bbb="000"-"167",0A-1.67A step by 0.01A
LXCP40-026bbb	LXCP40(II)-026bbb	bbb="000"-"155",0A -1.55A step by 0.01A
LXCP40-028bbb	LXCP40(II)-028bbb	bbb="000"-"142",0A -1.42A step by 0.01A
LXCP40-030bbb	LXCP40(II)-030bbb	bbb="000"-"133",0A -1.33A step by 0.01A
LXCP40-032bbb	LXCP40(II)-032bbb	bbb="000"-"125",0A -1.25A step by 0.01A
LXCP40-036bbb	LXCP40(II)-036bbb	bbb="000"-"111",0A -1.11A step by 0.01A
LXCP40-040bbb	LXCP40(II)-040bbb	bbb="000"-"100",0A -1.0A step by 0.01A
LXCP40-042bbb	LXCP40(II)-042bbb	bbb="000"-"095",0A -0.95A step by 0.01A
LXCP40-046bbb	LXCP40(II)-046bbb	bbb="000"-"087",0A -0.87A step by 0.01A
LXCP40-048bbb	LXCP40(II)-048bbb	bbb="000"-"084",0A -0.84A step by 0.01A

Remark:

LXCP40-aaabbb: For Class I Product, the Earth leakage current less than 300uA at 264Vac,60Hz.

LXCP40(II)-aaabbb: For Class II Product , the Earth leakage current less than 100uA at 264Vac,60Hz.

## 3 INPUT CHARACTERISTICS

### 3.1 INPUT VOLTAGE & FREQUENCY

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	Specification/ LXCP40/LXCP40(II) SERIES	Page	5/9	Date

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

### 3.2 INPUT CURRENT

The maximum input current is 1.0A 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 80% while measuring at 115VAC&230VAC input voltage, full load.

## 4 OUTPUT CHARACTERISTICS

Item	Model number		OUTPUT CHARACTERISTICS				notes
	LXCP40 series	LXCP40(II) series	Rated output voltage(V)	Output voltage range(V)	Rated output current(A)	Rated output power(W)	
Model number	LXCP40-005	LXCP40(II)-005	5.0	4.60~5.20	4.00	20.0	
	LXCP40-009	LXCP40(II)-009	9.0	8.80~9.20	4.00	36.0	
	LXCP40-012	LXCP40(II)-012	12.0	11.60~12.40	3.33	40.0	
	LXCP40-015	LXCP40(II)-015	15.0	14.70~15.30	2.67	40.0	
	LXCP40-168	LXCP40(II)-168	16.8	16.50~17.10	2.38	40.0	
	LXCP40-018	LXCP40(II)-018	18.0	17.60~18.40	2.22	40.0	
	LXCP40-019	LXCP40(II)-019	19.0	18.60~19.40	2.10	40.0	
	LXCP40-020	LXCP40(II)-020	20.0	19.60~20.40	2.00	40.0	
	LXCP40-024	LXCP40(II)-024	24.0	23.50~24.50	1.67	40.0	
	LXCP40-026	LXCP40(II)-026	26.0	25.50~26.50	1.55	40.0	
	LXCP40-028	LXCP40(II)-028	28.0	27.40~28.60	1.42	40.0	
	LXCP40-030	LXCP40(II)-030	30.0	29.40~30.60	1.33	40.0	
	LXCP40-032	LXCP40(II)-032	32.0	31.40~32.60	1.25	40.0	
	LXCP40-036	LXCP40(II)-036	36.0	35.30~36.70	1.11	40.0	
	LXCP40-040	LXCP40(II)-040	40.0	39.20~40.80	1.00	40.0	
	LXCP40-042	LXCP40(II)-042	42.0	41.20~43.00	0.95	40.0	
	LXCP40-046	LXCP40(II)-046	46.0	45.00~47.00	0.87	40.0	
LXCP40-048	LXCP40(II)-048	48.0V	47.00~49.00	0.84	40.3		
load regulation	±2%(±5%@5V)						
voltage regulation	±2%						
overshoot	≤5%						ab value

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	<b>Specification/ LXCP40/LXCP40(II) SERIES</b>		Page	6/9	Date

Hold up time	≥10 mS	@220VAC
Efficiency	≥80%(≥75%@5V)	@220VAC
Over current protection(A)	105-125%Iout	Full load
Over voltage protection(V)	105-140%Vout	
Ripple and noise	≤100mV (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%

### 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; YY0505
		Dropped to 30%Ut, last 500ms(25 cycle)	B	IEC/EN61000-4-11; GB17626.11

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	Specification/ LXCP40/LXCP40(II) SERIES	Page	7/9	Date

		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	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 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 to 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 200g.

## 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
□	UL	USA	UL60950-1/UL60601-1
■	CE	EUROPE	EN60950-1/EN60601-1

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	Specification/ LXCP40/LXCP40(II) SERIES	Page	8/9	Date

■	CB	WORLDWIDE	IEC 60601-1
■	TUV	GERMANY	IEC60601-1
□	NRTL	CUSA	IEC60601-1/UL60601-1
□	GS	GERMANY	EN60601-1
□	BS	ENGLAND	EN60601-1
□	SAA	AUSTRALIA	AS/NZS6-1
□	CCC	CHINA	GB4943/GB9706

**9.2 DIELECTRIC WITHSTAND VOLTAGE**

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

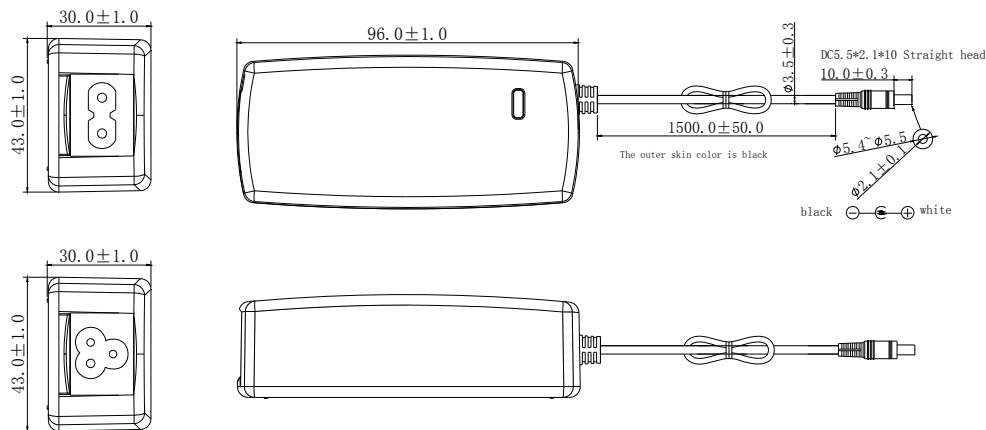
**9.3 LEAKAGE CURRENT**

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

**10 OUTLINE AND LABEL ARTWORK(UNIT: mm)**



**L\*W\*H 96.0\*43.0\*30.0**



**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.



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	Specification/ LXCP40/LXCP40(II) SERIES	Page	9/9	Date


## 12 NAMEPLATE




Symbol explanation on nameplate:

: Direct current


: RoHS mark

: Class II equipment, earth-free


: In-door use only

: CE mark

: CB mark

: Two-dimensional code

: DC Cable

: Environment protection- waste electrical products should not be disposed of with household waste. Please

follow the local government guidelines

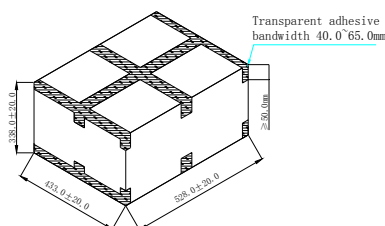
## 13 LNOTICE

- The power supply shall be transported by cars boats 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 products according to the requirements of the local government.

## 14 PACKING REQUIREMENT (UNIT: mm)

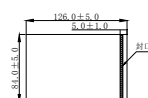
- Each power adapter is packed in a PE bag
- Packing Q'ty 100pcs/CTN (Size: 528.0\*423.0\*338.0mm)
- weigh about 20Kg
- Outline just for reference

The cartons: 528.0×423.0×338.0mm  
20 sets/floor ×5=100sets/box  
Weight: about 20kg/box

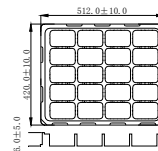


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LDPE bag



Blister tray

