

五、使用说明及防护措施

1. 电源开关置于断开状态，并将本电源所附带的电源线连接好，电源线插头“L”端尽量和交流输入的火线相连，电源线中的接地线应确保和大地有良好的连接。
2. 电源使用必须接地。
3. 本电源在使用时应注意通风，上、下、左、右应和其它物品保持 10cm 的间隙以保证通风顺畅，不要让电源暴露在多灰尘、腐蚀性气体及其它有害物质的环境中。
4. 对本电源的技术指标测量应开机预热 15 分钟后进行。
5. 通电前检测电源输入电压是否和市电符合，否则会导致严重故障。

六、装箱单

1. 整机一台
2. 电源线一条
3. 使用说明书一张
4. 测试线一条

七、维护

1. 当供电电压正常，开机后表头显示不亮，可能是保险管烧断或有其它故障，断开电源开关，拔下电源线，更换保险管或请专业人员查看。
2. 作为稳压源使用时，如果输出电压小于预定值并且CC灯亮是电源进入了电流保护，本机自动切换到稳流工作状态，此时应检查负载或根据使用情况调大输出电压预设值顺时针调节电流旋钮。
3. 作为稳流源使用时，如果输出电流小于预定值并且CV灯亮是电源进入了电压保护，本机自动切换到稳压工作状态，此时应检查负载或根据使用情况调大输出电压预设值，顺时针调节电压旋钮。
4. 如果故障严重不能解决，请与经销商或本公司联系



乐达以顾客为本

Made in China

合格证/保修卡

【售后服务细节】

1. 对使用软件版本实行免费升级。对产品因设计、制造安装工艺、材料等引起的质量问题，进行无偿的更换维修。
 2. 因不可抗拒因素(如火灾、地震、战争等)及用户人工因素(如施工、清洁等无意的人为因素等)造成的损坏，由双方协商解决。
 3. “一年质保，终身维护”，保修期结束后对系统终身维护，更换配件只收取成本费用。
 4. 本公司将不承担任何于使用时引致的其它损失。
 5. 保修期12个月内享受免费保修服务(不含附件)，运费谁寄谁出(只限大陆客户)。
- (1) 下列情况不属于保修范围:
 - (2) 因使用环境恶劣(如电镀等腐蚀性较强的环境)造成电源内部线路的损坏。
 - (3) 产品曾被错误操作，疏忽使用等事件引致损坏。
 - (4) 不按照原厂提供之说明书的指示操作或者保养。
 - (5) 本产品已经停止生产五年或以上。

产品合格证	
规格型号	
产品编号	
生产日期	
检验员	
本产品经检验符合规定的质量标准，准予出厂	

保修卡	
产品型号	
购买日期	
售货单位	
客户名称	
客户地址	
客户电话	
故障描述	
注:此卡为产品保修凭证，请务必妥善保管	

乐达® LKS305M CE

LODESTAR 超迷你直流稳压电源使用手册

一、概述

超迷你直流稳压电源是一款微小体积的单通道直流电源，四位数码管同时显示电压、电流和功率值;配置“ON/OFF”输出开关以及USB快充输出。轻便小巧，是客户理想的首选测试工具。

二、功能特点

- 体积小，功能俱全
- 独立 ON/OFF 输出开关
- 可记忆关断前的预设电压值、电流值
- 外置 USB 快充
- 按键锁功能，防止误操作

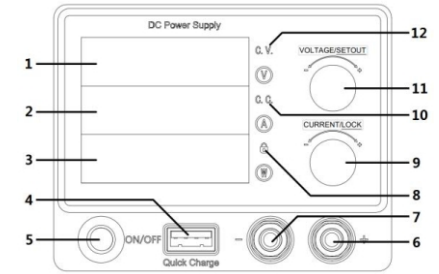
三、技术参数

型号	LKS305M	
额定电压	0~30V	
额定电流	0~5A	
输入电压	230V±10% (宽电压输入)	
工作条件	温度: 0°C~40°C	相对湿度: < 80%RH
存储条件	温度: -10°C~70°C	相对湿度: < 70%RH
恒压状态	电压稳定度	≤1%±3mV
	负载稳定度	≤1%±3mV
	纹波噪声	≤50mVrms
恒流状态	电流稳定度	≤1%±3mA
	负载稳定度	≤1%±3mA
	纹波噪声	≤50mArms
显示精度	1%±5个字	
显示分辨率	电压	0.01V
	电流	0.001A
产品尺寸	长 195mm×宽 102mm×高 80mm	
产品净重	约 0.8kg	
包装尺寸	长230mm×宽 180mm×高 120mm	
带包装重量	1.15kg	
保险丝规格	3.15A	

备注:以上参数是在环境温度 25±5°C;相对湿度<80%RH并预热30分钟所测得,实际参数会略有差别。

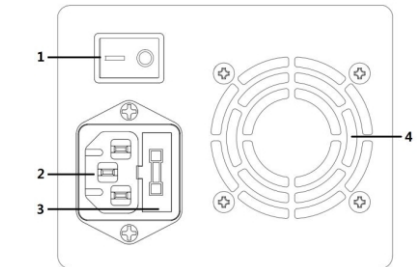
四、面板介绍

(一) 前面板



1. 电压显示窗口:待机状态下，显示电压预设值;输出状态下显示输出电压值。单位:伏特(V)。
2. 电流显示窗口:待机状态下，显示电流预设值;输出状态下，显示输出电流值。单位:安培(A)
3. 功率显示窗口:待机状态下，显示“OFF”;输出状态下，显示电源输出功率。单位:瓦特(W)
4. USB快充输出:QC18W(5V-3A/9V-2A/12V-1.5A)
5. ON/OFF输出开关:短按可切换输出状态。开关亮绿色，表示电源输出打开，开关亮红色，表示电源输出关断。
6. 输出正极接线柱。
7. 输出负极接线柱。
8. 锁定指示灯:长按电流旋钮锁定指示灯亮起，锁定指示灯亮黄色，表示旋钮锁定;再次长按电流调节旋钮，锁定指示灯熄灭锁定解除。
9. 电流调节旋钮:顺时针旋转，电流预设值增大;逆时针旋转电流预设值减小。短按旋钮，电流预设值编辑位从右往左移动;长按旋钮锁定/解锁旋钮。
10. CC恒流指示灯:红色“CC”亮起，表示电源当前处于恒流输出模式。
11. 电压调节旋钮:顺时针旋转，电压预设值增大;逆时针旋转，电压预设值减小。短按旋钮，电压预设值编辑位从右往左移动;长按旋钮保存当前输出状态，下次接通电源后，直接还原上一次的输出状态。
12. CV恒压指示灯:绿色“CV”亮起，表示电源此时处于恒压输出模式。

(二) 后面板



1. 电源输入通断开关:按下“1”为接通电源，按下“0”为断开电源输入
2. 电源供电插座:230V±10%(宽电压)
3. 保险丝座:内置 3.15A保险丝。
4. 散热风扇

6. Packing list

1. One complete machine
2. One power cord
3. One user manual
4. One test lead

7. Maintenance

1. When the power supply voltage is normal and the meter does not light up after startup, it may be a blown fuse or other faults. Disconnect the power switch, unplug the power cord, replace the fuse or ask a professional to check.
2. When used as a voltage stabilizer, if the output voltage is less than the preset value and the CC light is on, the power supply enters current protection and the machine automatically switches to steady current working state. At this time, check the load or increase the preset value of the output current according to the usage situation (turn the current knob clockwise).
3. When used as a constant current source, if the output current is less than the preset value and the CV light is on, the power supply enters voltage protection and the machine automatically switches to a stable voltage working state. At this time, check the load or increase the preset output voltage value according to usage (turn the voltage knob clockwise).
4. If the fault is severe and cannot be resolved, please contact the dealer or our company.

Certificate of conformity/warranty card

[Details of after-sales service]

1. Free upgrades for the software version in use. The product will be replaced and repaired free of charge for quality problems caused by design, manufacturing and installation process, materials, etc.
2. Damage caused by force majeure (such as floods, fires, earthquakes, wars, etc.) and user human factors (such as unintentional human factors such as construction, cleaning, etc.) shall be resolved through coordination between the two parties.
3. "One-year warranty, lifetime maintenance", the system will be maintained for life after the warranty period ends, and the cost of replacement parts will only be charged.
4. The company will not be responsible for any other losses arising from use.
5. Free warranty service (excluding accessories) within 12 months of warranty, shipping by the sender (mainland customers only).
6. The following situations are not covered by the warranty:
 - (1) Damage to the internal circuits of the power supply due to harsh usage conditions (such as electroplating and other highly corrosive environments).
 - (2) The product has been repaired or modified by non-company technicians or service stations not approved by our company.
 - (3) The product has been damaged due to errors in operation, negligence in use, etc.
 - (4) Failure to operate or maintain in accordance with the instructions provided by the manufacturer.
 - (5) This product has been out of production for five years or more.

Product certificate of conformity	
Specification model	
Product number	
Date of Manufacture	
Inspector	
This product has been inspected to meet the prescribed quality standards and is permitted to leave the factory	

Warranty card	
Product model	
Date of purchase	
Sales unit	
Customer name	
Customer Address	
Customer telephone	
Fault description	
Note: This card is a product warranty certificate. Please keep it properly	



1. Overview

The ultra-mini DC regulated power supply is a tiny single-channel DC power supply with a four-digit digital tube that simultaneously displays voltage, current and power values; Equipped with an "ON/OFF" output switch and a USB fast charging output. Lightweight and compact, it is the ideal preferred test tool for customers.

2. Features

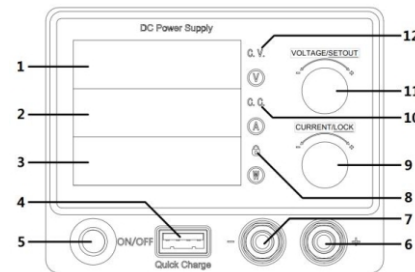
- Small in size, fully functional
- Independent ON/OFF output switch
- It can remember the preset voltage and current values before turning off
- External USB fast charging
- Key lock function to prevent misoperation

3. Technical parameters

Model	LKS305M	
Rated voltage	0-30V	
Rated current	0-5A	
Input voltage	110V~230V±10% 50Hz/60Hz(wide voltage range)	
Working conditions	Temperature: 0°C to 40°C	Relative humidity: < 80%RH
Storage conditions	Temperature: -10°C to 70°C	Relative humidity: < 70%RH
Constant pressure state	Voltage stability	≤1%±3mV
	Load stability	≤1%±3mV
	Ripple noise	≤50mVrms
Constant current state	Current stability	≤1%±3mA
	Load stability	≤1%±3mA
	Ripple noise	≤50mArms
Display accuracy	1%±5 words	
Display resolution	Voltage	0.01 V
	0.01 V	0.001 A
Product size	195mm long × 102mm wide × 80mm high	
Product Net weight	About 0.8kg	
Packaging size	230mm long × 180mm wide × 120mm high	
Weight with package	1.15 kg	
Fuse Specifications	3.15 A	

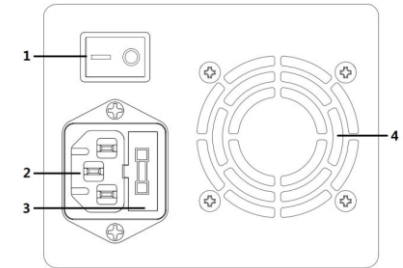
4. Panel Introduction

(1) Front panel



1. Voltage display window: Shows preset voltage values in standby mode; In the output state, display the output voltage value. Unit: volts (V).
2. Current display window: Displays preset current values in standby mode; Display the output current value in the output state. Unit: Amperes (A).
3. Power display window: In standby mode, shows "OFF"; In the output state, show the power output of the power supply. Unit: Watt (W)
4. USB fast charging output: QC18W (5V-3A/9V-2A/12V-1.5A).
5. ON/OFF output switch: Short press to switch output status. A light green switch indicates power output on, and a light red switch indicates power output off.
6. Output positive terminal.
7. Output the negative terminal.
8. Lock indicator light: Hold down the current knob lock indicator light. The lock indicator light is yellow, indicating that the knob is locked; Hold down the current adjustment knob again and the lock indicator light will go off and the lock will be released.
9. Current adjustment knob: Rotate clockwise and the preset current value increases. Turn it counterclockwise and the current preset will decrease. Press the knob short to move the current preset editing position from right to left; Hold down the knob to lock/unlock the knob.
10. CC Constant current indicator light: The red "CC" light comes on, indicating that the power supply is currently in constant current output mode.
11. Voltage adjustment knob: Turn clockwise to increase the preset voltage value; Turn it counterclockwise and the preset voltage will decrease. Press the knob short to move the voltage preset editing position from right to left; Long press the knob to save the current output state, and the next time the power is connected, restore the previous output state directly.
12. CV Constant voltage indicator light: A green "CV" light indicates that the power supply is in constant voltage output mode at this time.

(2) Rear panel



1. Power input on-off switch: Press "1" to turn on power, press "0" to turn off power input.
2. Power supply socket: 110V~230V±10% 50Hz/60Hz(wide voltage)
3. Fuse holder: Built-in 3.15A fuse.
4. Cooling fan.

5. Instructions for use and precautions

1. Keep the power switch off, connect the power cord that comes with this power supply, connect the "L" end of the power cord plug to the live wire of the AC input as much as possible, and ensure that the ground wire in the power cord is well connected to the ground.
2. The power supply must be grounded in use.
3. When using this power supply, pay attention to ventilation. There should be a 10cm gap between the upper, lower, left and right sides and other items to ensure smooth ventilation. Do not expose the power supply to dusty, corrosive gases and other harmful substances.
4. Technical measurements of this power supply should be carried out after the power is turned on and preheated for 15 minutes.
5. Before powering on, check if the input voltage of the power supply matches the mains voltage; otherwise, it will cause a serious malfunction.