

使用产品前请仔细阅读本说明书，并妥善保管。



枪头选择



国标



美标



欧标



特斯拉

15/30KWH叠叶堆叠式光储充

用户手册

符合国际安全与充电标准

Designed And Certified To International Safety Standards

CE | UL | CSA | FCC

Battery & System Safety: IEC/EN 62619 | IEC/EN 62109 | UL 1973

AC Charging Standards: IEC/EN 61851-1 | UL 2594 | CSA C22.2 No. 280

Connector Options: GB/T | Type 2 | J1772 | NACS

前言

感谢您选择购买和使用本公司15/30KWH堆叠式光储充

- 在能源变革与交通电动化浪潮席卷全球的今天，高效、可靠的充电体验是推动绿色出行发展的关键基石。本产品秉承科技赋能，绿色未来的设计理念，集成了先进的电力电子技术、智能控制系统与严苛的安全标准，致力于为您提供极速、稳定、安全的直流充电服务。
- 本文包含了重要安全事项说明、安装说明、产品介绍、操作指南、故障排查以及日常维护等全方位信息。遵循本说明书的指导，是保障您个人人身安全、车辆电池安全以及设备本身安全的前提。请在使用前认真阅读本说明书。
- 请您特别关注手册中的【安全注意事项】章节，其中详细列出了操作过程中必须禁止的行为和必须遵守的准则。
- 本文中的配图、尺寸以及显示界面等内容仅供参考，因产品升级换代产生的更改，恕不另行通知，以用户购买的实际产品为准，并及时关注我司的产品动态信息。
- 请妥善保管使用说明书以供日后参考。

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3.安全注意事项

- 在本文中可能出现下列标志，它们所代表的含义如下：

符号	含义说明
	危险！表示可能会导致死亡或重伤的安全事项
	注意！表示可能会导致轻伤或财产损害的安全事项
	提示！表示【温馨提示】的内容

-  不遵守安全警告而错误使用可能导致事故发生。
-  在运输时，避免强烈的撞击和颠簸，避免将产品损坏。
-  远离易燃易爆等其他易产生火源的地方。
-  避免阳光直射，户外应加装遮阳（防雨）棚。
-  远离水源，如水龙头、下水管道、洒水器等。
-  充电桩上级断路器和配电柜需由专业电气人员选型、安装和操作，安装过程严禁带电操作。
-  严禁在雷电、雨、雪、六级大风等恶劣天气下安装和使用，如果充电桩发生积水现象需联系专业人员处理完毕后方可继续使用。
-  为确保人身安全和正常使用，安装时应进行可靠接地。
-  请在为电动汽车充电前关闭汽车发动机。
-  插入或拔出充电枪时严禁左右摇晃充电枪，需垂直用力插入或拔出。
-  充电过程中，请勿遮挡通风口或散热系统，以防止高温起火。

- ⚠ 充电过程中，禁止儿童靠近或使用。
- ⚠ 充电过程中，严禁触摸充电插头或电动汽车的充电插座，保持充电插头处于干燥状态，切勿手上沾水触摸充电插头。
- ⚠ 充电过程中，严禁直接插拔充电枪头以及进行其他与充电无关的任何操作，请先手动点击“停止”按钮，确认充电枪头与汽车断开连接的状态下,方可进行其他操作。
- ⚠ 充电过程中，发生任何紧急情况时，请立即按下急停按钮并切断所有输入和输出电源，注意不得在非紧急情况下使用急停按钮。
- ⚠ 充电过程中，人员请勿停留在车内。
- ⚠ 严禁在充电枪或充电线缆存在缺陷、裂纹、磨损、断裂或导体裸露等情况下继续使用，并到指定维修点，请专业人员更换或维修。
- ⚠ 未经生产商确认请勿擅自尝试拆卸、维修和改装。
- ⚠ 火灾发生时应使用二氧化碳或干粉灭火器，切勿用水。
- ⚠ 如遇任何污迹，请用干净干燥的布擦拭。
- ⚠ 出厂已进行功能调试，为确保充电桩能够正常运行，非必要不得调整系统参数，如需调整请在专业人员指导下或由专业人员进行操作。

4.产品按键介绍

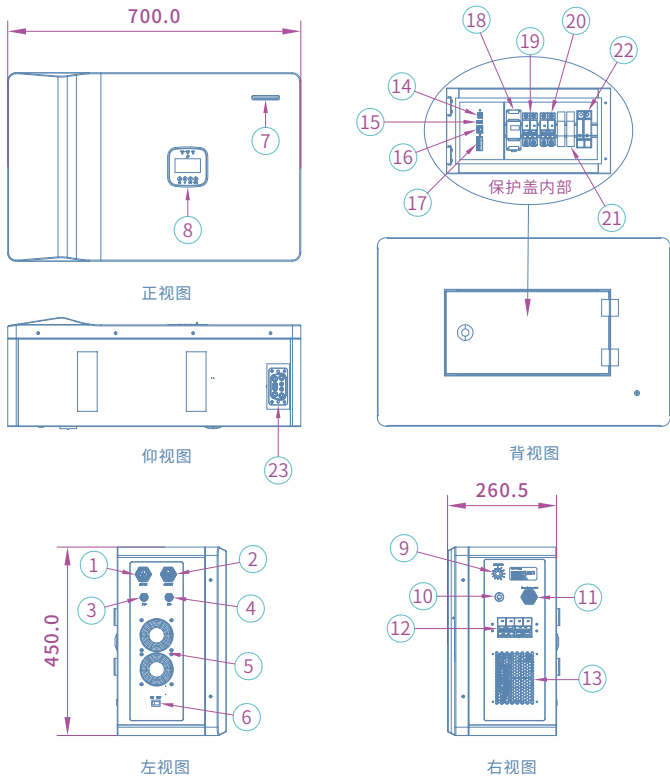


图1

4.1功能说明

1	AC/IN	输入交流电源（单相）
2	AC/OUT	输出交流电源（单相）

3	PV+	光伏输入正极
4	PV-	光伏输出负极
5	进风口	散热
6	启动开关	启动设备
7	LED灯板	运行状态提示
8	显示屏	人机交互
9	旋转开关	调节功能档位
10	按键开关	(备用)
11	充放端口	电能传导；输入和输出电能
12	手动转换断路器	切换电能输入；保护电路
13	出风口	散热
14	USB通讯接口	数据传输
15	WiFi端口	(备用)
16	RS485-2/BMS通信端口	信息交互
17	干接线端子	/
18	电能表	显示用电数据
19	断路器1	保护市电输入电路
20	断路器2	保护光伏输入电路
21	导轨式熔断器	过载保护
22	防雷保护器	防雷
23	电池连接端口	电池电能传导；输入和输出电能

4.2产品参数

逆变器	额定功率	6.2KW	11KW
	交流额定电压	230VAC	
	额定频率	60Hz	
	效率	>98%	
	电池过压	58.4V	
	电池欠压报警	45V	
	恒压充电	58.4V	
	浮充电压	56V	
	最大充电电流	120A	150A
	工作环境		
	通讯接口	RS232 (逆变器) /RS485 (BMS)	
	尺寸	L700*W260*H450MM	

交流输入	额定电压	230VAC	
	电压范围	90-280VAC	
	额定频率	50/60Hz	
	额定电流	30A	60A
	最大交流电流	60A	120A
光伏输入	最大电压	500V	
	最佳电压	300-400V	
	电压范围	120-500VDC	
	最大功率	8.5KW	11KW
电池	额定容量	15360Wh (300Ah)	
	标称电压	51.2V	
	放电电压范围	43.2-58.4V	
	标准充电电流	100A	
	最大充电电流	200A	
	最大放电电流	200A	
	放电深度	95%	
	通信接口	CAN/RS485	
	循环寿命	≥ 8000 次, $25 \pm 2^{\circ}\text{C}$, 0.5C, EOL80%	
	工作温度	充电: 0°C - 50°C ; 放电- 20°C - 60°C	
	存储温度	-10°C - 60°C	
	尺寸	L700*W260*H510MM	
AC充电桩	额定输出功率	3.5KW	7KW
	额定输出电压		
	额定电流	16A	32A
	充电接口	TYPE 2	
	充电线长	5M	
	保护功能	过压、欠压、过流、短路、漏电等保护	
	工作温度	-40°C ~ 70°C , 55°C 以上降额工作, 70°C 以上停止工作	

5.安装说明

5.1 产品组装

5.1.1 产品安装：将控制器模组和储能模组进行堆叠（不管增加几个储能模组永远保持在最上面一层），如图2所示：

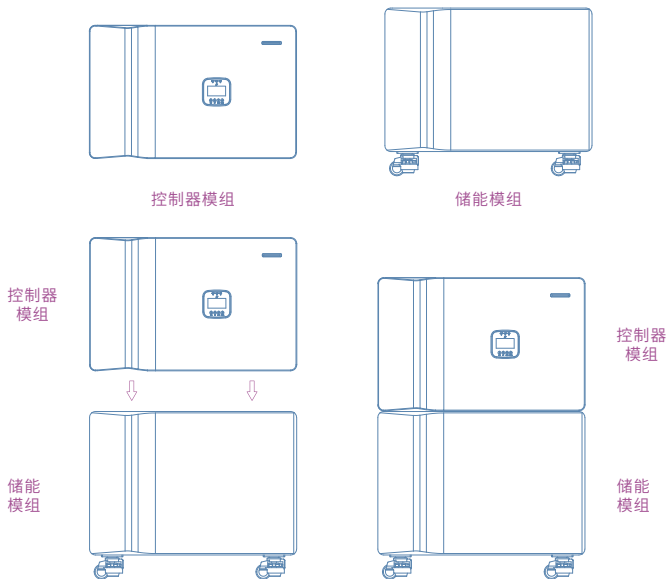


图2

► 注：堆叠时需对齐模组之间各自孔位，完成后查看是否模组之间有明显晃动（有明显晃动时，检查是否对齐孔位）；

6.APP连接

6.1 SESC-EV Charging APP连接步骤 (iOS/Android)

IOS用户：在App Store搜索SESC-EV，找到SESC-EV Charging（图1），点击获取进行下载安装。

Android用户：扫描二维码（图2）或者输入网址下载SESC-EV Charging（网址：<https://www.pyer.com/lsc-android-dev>）（图3）



图1



图2



图3

1. 安装完成后，打开SESC-EV Charging，点击登录注册（图2），再点击还没有账号？（图3）进行账号注册。



图4



图5



图6

2.登录后点设备，点击右上角的“+”（图7），点击扫描二维码，扫描设备二维码进行设备连接（图8）。



图7



图8

3.连接后可查看设备电量、工作状态，以及控制/设置设备。



图1



图2



图3

► 注：手机APP连接时，需要光储充设备的WIFI与手机WIFI保持一致（具体操作，可参考APP操作教程）

7.故障排除

序号	故障	排除方法
1	显示屏无显示，灯不亮，无法启动	1.紧固供电线缆； 2.断路器断开连接，重新启动； 3.急停按钮被按下，旋转使其弹起复位；
2	充电启动失败	1.重新插拔枪； 2.重启充电桩； 3.确保车辆处于可充电状态（有些车辆需要熄火或者开启充电功能，详见车辆手册）；
3	无法通讯成功	检查机内通讯线缆是否松动并进行紧固；
4	充电异常停止	1.超时保护，重新启动； 2.模块温度过高，待温度下降后可重新启动； 3.充电枪误拔，重新插拔枪； 4.重新充电流程；
5	接触器闭合异常	1.检查对应接线是否松动或开路并进行紧固； 2.更换同等类型接触器；
6	充电枪无法顺利拔出	1.车钥匙解锁或车内中控屏点击“解锁充电口”功能。部分车辆需要在熄火状态下才能解锁； 2.确认已完成充电，桩端屏幕显示“可拔枪”状态；
7	充电模块故障	1.清洁滤网和风扇； 2.检查模块通讯接线是否松动并进行紧固；

“重新插拔充电枪”能解决50%以上的问题。遇到无法解决的问题，首要任务是确保安全并联系专业人员处理！

8.维护与保养

直流充电桩的日常维护是确保其安全、稳定、高效运行的关键。具体维护事项如下表所示:

项目	处理方法	周期
检查外壳是否有破损、变形、严重刮花或锈蚀	请专业人员维修或更换	半年
检查机内是否积尘	使用真空吸尘器、毛刷或干布进行清洁, 注意避免水渍侵入	每月
检查进出风口有无异物遮挡或积尘	使用真空吸尘器、毛刷或干布进行清洁, 注意避免水渍侵入	每月
检查充电枪头接口内是否有异物或脏污	使用真空吸尘器、毛刷或干布进行清洁, 注意避免水渍侵入	每月
检查内部断路器、接触器、继电器等元器件有无电弧烧黑、变形现象	请专业人员维修或更换同等类型零件	每月
检查输入/输出电源端子、接地端子的螺丝是否松动	使用力矩扳手紧固, 注意断电操作	每月
检查线缆有无过热、老化、破皮现象	请专业人员维修或更换同等类型线缆, 注意断电操作	每月
检查风扇运转是否平稳、无异常噪音	请专业人员维修或更换	每月
防尘网的清理	用水对其进行清洗, 确保完全干透后再装入机内	3个月
检查液冷系统进出管的连接部位是否有泄漏	更换管子; 加固接头或更换接头	3个月
检查液冷系统防冻液液位是否满足要求;	打开液冷加液口盖进行加液完成后锁紧扣盖	3个月
检查也冷系统是否积尘和存在杂物	使用真空吸尘器、毛刷或干布进行清洁, 注意避免水渍侵入	3个月
液冷系统防冻液更换	/	2年

- ⚠ 设备在运行过程中，存在高电压，可能产生电击，导致财产损失、严重人身伤害或死亡。所以在进行任何维护工作之前，必须先将设备下电，并且严格按照本手册及其他相关文件中列出的安全注意事项进行操作！
- ⚠ 每半年对线路和螺丝进行一次全面检查和加固，确保设备安全稳定运行，防止松动或老化带来的隐患。

9.出厂配件清单

序号	品名规格	
1	叠叶堆叠式光储充裸机	1PCS
2	枪端端口充电线，L=5M	1PCS
3	车端端口充电线，L=1M	1PCS
4	3芯插孔公头（AC/IN）	1PCS
5	3芯插针公头（AC/OUT）	1PCS
6	说明书	1PCS
7	合格证	1PCS

10.服务承诺

产品如有故障，请与本公司或当地代理商联系；本产品实行整机一年保修期。

凡属下列情况之一的，不属保修范围

- 1.用户搬运、使用、保管、维护不当而损坏，或人为损坏；
- 2.经非本公司指定维修部维修，或用户自行拆装、维修；
- 3.因不可抗力造成损坏；
- 4.超出保修期限。

Please read this manual carefully before using the product and keep it in a safe place.



Tip Selection



GBT



CCS1



CCS2



NACS

15/30KWH Double-layer Stacked Photovoltaic Energy Storage and Charging System

User Manual

Compliant with international safety and charging standards
Designed And Certified To International Safety Standards

CE | UL | CSA | FCC

Battery & System Safety: IEC/EN 62619 | IEC/EN 62109 | UL 1973

AC Charging Standards: IEC/EN 61851-1 | UL 2594 | CSA C22.2 No. 280

Connector Options: GB/T | Type 2 | J1772 | NACS

Preface

Thank you for choosing to purchase and use our 15/30KWH stacked photovoltaic storage and charging system.

- In today's global transition toward energy transformation and transportation electrification, efficient and reliable charging performance has become a key foundation for promoting green mobility. This product is designed based on the concept of “Technology Empowering a Green Future”, integrating advanced power electronics technology, intelligent control systems, and rigorous safety standards.
- This manual contains comprehensive information including important safety instructions, installation guidelines, product introduction, operating instructions, troubleshooting procedures, and routine maintenance guidance. Following the instructions in this manual is essential to ensure personal safety, vehicle battery safety, and equipment operational safety. Please read this manual carefully before using the product.
- Please pay special attention to the "Safety Precautions" section in this manual, which provides detailed operational safety requirements and important precautions.
- All illustrations, dimensions, and display interface contents in this manual are for reference only. Due to continuous product upgrades and improvements, specifications may be subject to change without prior notice. Please refer to the actual product purchased as the final reference, and stay updated with our latest product information and announcements.
- Please keep this user manual properly for future reference.

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3.Safety Precautions

3.1 Explanation of Symbols

- The following symbols may appear in this manual, and their meanings are as follows:

Symbol	Explanation of meaning
	Warning ! Indicates safety precautions that may lead to death or serious injury.
	Caution ! Indicates safety precautions that may lead to minor injury or property damage.
	Note ! Indicates the content of 【Friendly Reminder】

3.2 Safety Instructions

-  Improper use without following safety warnings may result in accidents.
-  Avoid severe impact and bumping during transportation to prevent product damage.
-  Keep away from flammable, explosive and other fire-prone places.
-  Avoid direct sunlight; install a sunshade (rainproof) shed for outdoor use.
-  Keep away from water sources such as faucets, sewer pipes, sprinklers, etc.
-  The upper-level circuit breakers and distribution cabinets of the charging pile shall be selected, installed and operated by professional electrical personnel; live operation is strictly prohibited during the installation process.

- ⚠ Installation and use are strictly prohibited under severe weather conditions such as thunder, lightning, rain, snow and level 6 gales. If water accumulation occurs in the charging pile, contact professional personnel for treatment before resuming use.
- ⚠ Ensure reliable grounding during installation to ensure personal safety and normal use.
- ⚠ Turn off the vehicle engine before charging an electric vehicle.
- ⚠ Do not shake the charging gun left or right when inserting or pulling out the charging gun; insert or pull it out with vertical force.
- ⚠ Do not block the air vents or heat dissipation system during charging to prevent fire caused by high temperature.
- ⚠ Keep children away from or using the equipment during charging.
- ⚠ Do not touch the charging plug or the charging socket of the electric vehicle during charging; keep the charging plug dry and never touch the charging plug with wet hands.
- ⚠ Do not directly plug or unplug the charging Connector or perform any other operations unrelated to charging during charging. Please manually click the "Stop" button and confirm that the charging gun head is disconnected from the vehicle before performing other operations.
- ⚠ In case of any emergency during charging, press the emergency stop button immediately and cut off all input and output power supplies. Do not use the emergency stop button under non-emergency circumstances.
- ⚠ Personnel are not allowed to stay in the vehicle during charging.

- ⚠ It is strictly forbidden to continue using the charging gun or charging cable if there are defects, cracks, abrasions, fractures or exposed conductors; go to the designated maintenance point and ask professional personnel for replacement or repair.
- ⚠ Do not attempt to disassemble, repair or modify the equipment without the manufacturer's confirmation.
- ⚠ Use a carbon dioxide or dry powder fire extinguisher in case of fire; do not use water.
- ⚠ Wipe off any stains with a clean and dry cloth.
- ⚠ The product has undergone functional debugging before leaving the factory. To ensure the normal operation of the charging pile, do not adjust the system parameters unless necessary. If adjustment is required, it shall be carried out under the guidance of or by professional personnel.

4. Product Button Introduction

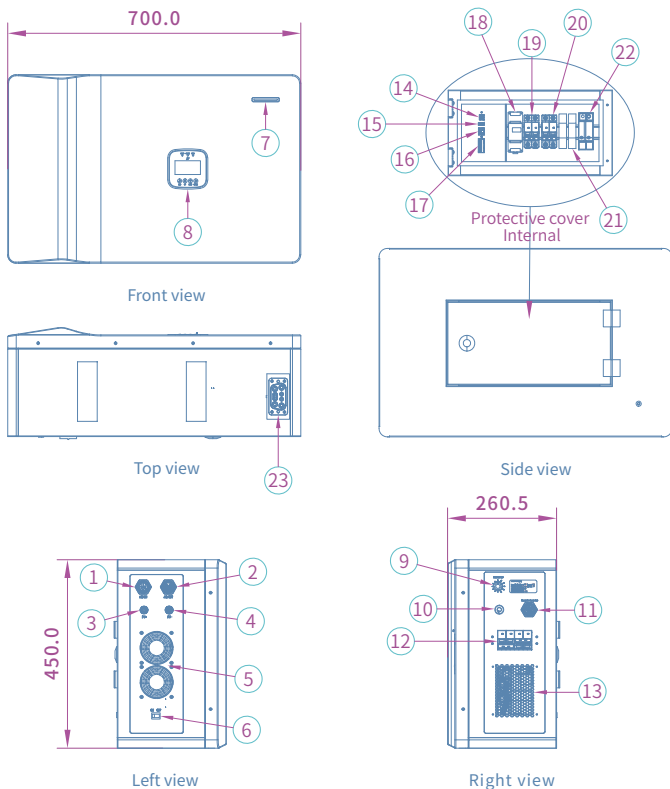


Figure 1

4.1 Function Description

1	AC/IN	Input: AC power supply (single phase)
2	AC/OUT	Output: AC power supply (single phase)

3	PV+	Photovoltaic input positive electrode
4	PV-	Photovoltaic output negative electrode
5	Inlet port	Heat dissipation
6	Start switch	Start the equipment
7	LED lamp panel	Operation status message
8	Display screen	Human-computer interaction
9	Rotary switch	Adjustment function gear position
10	Push-button switch	(Backup)
11	Charge and discharge port	Electric energy conduction; Input and output of electric energy
12	Manual circuit breaker conversion	Switch power input; protection circuit
13	Exhaust outlet	Heat dissipation
14	USB communication interface	Data transmission
15	WiFi port	(Backup)
16	RS485-2/BMS communication port	Information exchange
17	Dry connection terminal	/
18	Electric energy meter	Display electricity consumption data
19	Breaker 1	Protect the mains power input circuit
20	Breaker 2	Protect the photovoltaic input circuit
21	Rail-mounted fuse	Overload protection
22	Lightning protection device	Lightning protection
23	Battery connection port	Battery electrical energy conduction; Input and output electrical energy

4.2 Product Parameters

Inverter	Rated power	6.2KW	11KW
	Rated operating voltage	230VAC	
	Rated frequency	60Hz	
	Efficiency	>98%	
	Battery overvoltage	58.4V	
	Battery under-voltage alarm	45V	
	Constant voltage charging	58.4V	
	Floating charge voltage	56V	
	Maximum charging current	120A	150A
	Work environment		

	Communication interface	RS232 (Inverter) / RS485 (BMS)	
	Size	L700*W260*H450MM	
Communication Input	Rated voltage	230VAC	
	Voltage range	90-280VAC	
	Rated frequency	50/60Hz	
	Rated current	30A	60A
	Maximum alternating current	60A	120A
Photovoltaic Input	Maximum voltage	500V	
	Optimal voltage	300-400V	
	Voltage range	120-500VDC	
	Maximum power	8.5KW	11KW
Battery	Rated capacity	15360Wh (300Ah)	
	Rated voltage	51.2V	
	Discharge voltage range	43.2-58.4V	
	Standard charging current	100A	
	Maximum charging current	200A	
	Maximum discharge current	200A	
	Discharge depth	95%	
	Communication interface	CAN/RS485	
	Cycle life	≥8000 times, 25 ± 2°C, 0.5C, EOL 80%	
	Working temperature	Charging: 0°C - 50°C; Discharging: -20°C - 60°C	
	Storage temperature	-10°C-60°C	
	Size	L700*W260*H510MM	
AC charging station	Rated output power	3.5KW	7KW
	Rated output voltage		
	Rated current	16A	32A
	Charging port	TYPE 2	
	The charging cable is long.	5M	
	Protection function	Overvoltage, undervoltage, overcurrent, short circuit, leakage current, etc. protection	
	Working temperature	-40°C to 70°C. Normal operation is conducted above 55°C, and the equipment will stop working above 70°C.	

5. Usage Instructions

5.1 Installation Instructions

5.1.1 Product Installation: Stack the controller module and the energy storage module together (regardless of the number of energy storage modules added, always keep them on the top layer), as shown in Figure 2:

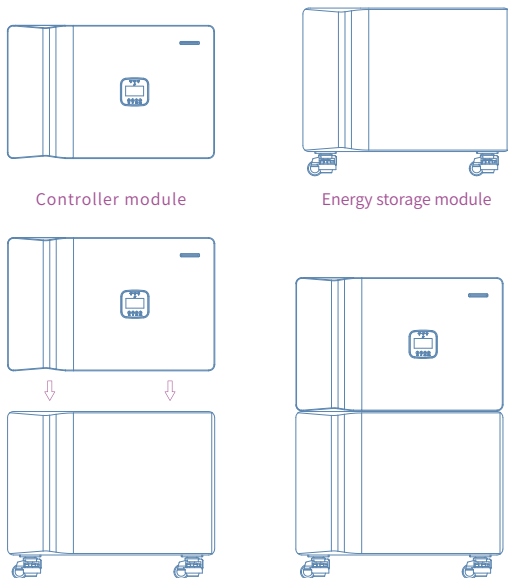


Figure 2

- Note: When stacking, ensure that the respective holes of the modules are aligned. After completion, check if there is any obvious shaking between the modules (if there is obvious shaking, check if the holes are aligned).

6. APP Connection

6.1 Connection Steps for SESC-EV Charging APP (iOS/Android)

iOS: Search for "SESC-EV" in the App Store and find "SESC-EV Charging" (Figure 1). Click "Get" to download and install.

Android: Scan the QR code (Figure 2) or enter the website to download SESC-EV Charging (Website: <https://www.pgyer.com/lsc-android-dev>) (Figure 3)



Figure 1



Figure 2



Figure 3

After the installation is completed, open SESC-EV Charging, click on "Login and Register" (Figure 2), and then click "Do you not have an account yet?" (Figure 3) to register an account.

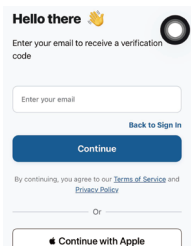


Figure 4

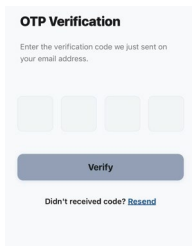


Figure 5

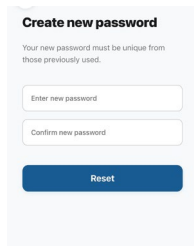


Figure 6

2. After logging in, click on the device, then click the "+" button on the top right corner (Figure 7), and click "Scan QR Code". Scan the device's QR code to establish a connection (Figure 8).

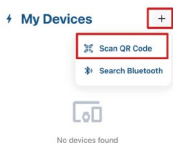


Figure 7



Figure 8

3. After connection, you can view the device's battery level, working status, and control/adjust the device.



Figure 1



Figure 2

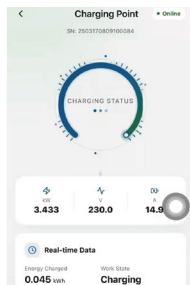


Figure 3

► Note: When connecting the mobile APP, the WIFI of the energy storage charging device and the WIFI of the mobile phone must be kept consistent (for specific instructions, please refer to the APP operation manual)

7. Troubleshooting

NO.	Fault Description	Resolutions
1	No display, no lights, fail to start	1. Tighten the power supply cable connections. 2. Restart the circuit breaker. 3. Rotate the emergency stop button to release and reset.
2	Charging startup failure	1. Reconnect the charging gun (pull out and connect again). 2. Restart the charging station. 3. Ensure the vehicle is in a charge-ready state (some vehicles require being powered off or enabling charging – refer to the vehicle manual).
3	Communication unsuccessful	Check and secure any loose internal communication cable connections.
4	Charging stopped abnormally	1. Timeout protection triggered, restart the charging session. 2. Module temperature too high, wait for module cool down and restart. 3. Charging gun disconnected accidentally; reconnect it. 4. Restart the charging process.
5	Contactor closing abnormality	1. Check the relevant connections if there is any loose or open wiring, then tighten or repair it. 2. Replace the contactor with an equivalent type.

6	Unable to pull the charging gun	1. Unlock with the vehicle key or the central console screen's "unlock charging port" function. Some vehicles require being powered off to unlock. 2. Ensure charging is complete and the screen indicates it is "Safe to Unplug" or a similar status.
7	Charging module fault	1. Clean the filter and fan; 2. Check if the module communication wiring is loose and tighten it.

"Pull out and reconnect the charging gun" can solve more than 50% of the issues. When face problems that cannot be addressed, the primary task is to ensure safety and contact professionals for assistance!

8. Maintenance

The daily maintenance of DC charger is the key to ensuring their safe, stable, and efficient operation. The specific maintenance items are shown in the table below:

Item	Maintenance Procedure	Frequency
Check the enclosure for damage, deformation, severe scratches, or corrosion	Please have a professional repair or replace it.	Semi-Annually
Check for dust accumulation inside the unit	Use a vacuum cleaner, a brush, or a dry cloth for cleaning, and keep away from water.	Monthly
Check the air inlet and outlet for any obstructions or dust accumulation.	Use a vacuum cleaner, a brush, or a dry cloth for cleaning, and keep away from water.	Monthly
Check whether there are any foreign objects or dirt inside the charging connector interface.	Use a vacuum cleaner, a brush, or a dry cloth for cleaning, and keep away from water.	Monthly
Check the internal circuit breakers, contactors, relays, and other components if any arcing, burning, or deformation.	Please have a professional repair or replace with equivalent parts.	Monthly

Check if the screws of the input/output power terminals and grounding terminals are loose.	Use a torque wrench to tighten, must operate with power off.	Semi-Annually
Check the cables if any overheating, aging, or abrasion	Please have a professional repair or replace the same type of cable, and ensure that power is turned off.	Monthly
Check if the fan operates smoothly and without abnormal noise.	Please have a professional repair or replace it.	Monthly
Cleaning of the dust-proof net	Wash it with water and make sure it is completely dry before putting it into the machine.	Quarterly

-  During operation, high voltage is present on the equipment, which may cause electric shock, resulting in property damage, serious personal injury, or death. Therefore, before performing any maintenance work, the equipment must be powered off and the safety precautions listed in this manual and other related documents must be strictly followed.
-  Conduct a comprehensive inspection and reinforcement of lines and screws every six months to ensure the safe and stable operation of equipment and prevent hidden dangers caused by loosening or aging.

9. Operating Instructions

NO.	Product Name and Specifications	
1	Stacked-leaf stacking type Solar energy storage and charging	1PCS
2	The charging cable with the gun port, L = 5M	1PCS
3	Vehicle charging cable at the port, L = 1M	1PCS
4	3-pin jack male connector (AC/IN)	1PCS
5	3-pin male connector (AC/OUT)	1PCS
6	Instruction manual	1PCS
7	Certificate of Conformity	1PCS

10. Service Commitment

If the product malfunctions, please contact our company or the local authorized distributor. This product comes with a one-year warranty

The following circumstances are excluded from warranty coverage:

1. Damage caused by improper handling, operation, storage, maintenance, or human error.
2. Damage resulting from repairs performed by unauthorized service providers or unauthorized disassembly/repair by the user.
3. Damage caused by force majeure.
4. Damage occurring after the warranty period has expired.