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|----|------|-----|----------|
| A0 | 首版发布 | 杨振华 | 25.05.07 |
| A1 |      |     |          |
| A2 |      |     |          |
|    |      |     |          |

封底

封面

143

说明书示意图

样品承认书要求:

- 01、封面 (供应商&我司承认会签)
- 02、图纸/规格
- 03、尺寸报告
- 04、包装说明
- 05、试验报告 (如纸张, 胶水, 装订环保证明等)
- 06、材质分解表 (如纸张纸的克重品牌, 材质克重和胶水品牌型号等)
- 07、材质证明、MSDS (如有第三方正式机构的证明也附上)
- 08、IQC检验报告

封底

封面

页数共48P

技术要求:

成品尺寸:A5(143\*210mm)

材质:80g书写纸封面封底内页, 双面印刷, 装订;

颜色:单黑印刷;

所用材质需符合RoHS;

注:印刷需清晰, 不能有模糊, 脏污, 脱墨, 花点, 重影, 印歪,

纸张不平整等不良。

| 深圳市德兰明海新能源股份有限公司<br>Shenzhen PowerOak Newener Co.,Ltd |                            |                                                                                       |         |                 |                                                                                                                              |
|-------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|---------|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| 材 料                                                   |                            |  | 表面处理    |                 | 无特殊说明, 长度单位: mm<br>未标注尺寸公差按:<br>x. (没有小数位) ±0.2<br>x.x (一位小数位) ±0.1<br>x.xx (两位小数位) ±0.05<br>x° (角度) ±0.5°<br>* 一重要尺寸 0—参照尺寸 |
| 型 号                                                   | 2-ALP-015-A<br>(SolarX 4K) | 比例:<br>1: 1 /A4                                                                       | 图纸编号/版本 | 2ALP015-6d01A0  |                                                                                                                              |
| 名 称                                                   | 英法说明书 (美规BLUETTI)          |                                                                                       |         |                 |                                                                                                                              |
| 设 计                                                   |                            | 审 核                                                                                   | 批 准     | 物料编号            |                                                                                                                              |
| 杨振华<br>2025.05.07                                     |                            |                                                                                       |         | 17.0303.0903-00 |                                                                                                                              |
|                                                       |                            |                                                                                       |         | 共 张/ 第 张        |                                                                                                                              |

# SolarX 4K

## Solar Charge Controller

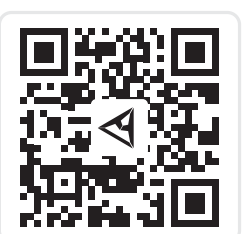
### User Manual v1.5

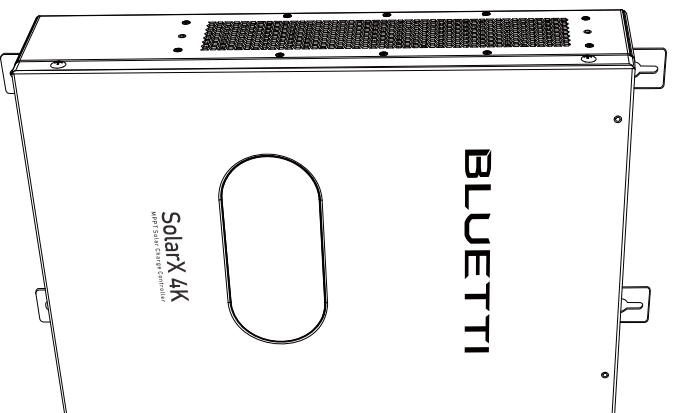
#### Important Instructions

For optimal performance, update your unit to the latest firmware before first use.

See the appendix "Update Firmware via BLUETTI App" for guidance.

Read and understand this manual before use and keep it handy for future reference.





### Warning

1. Inspect the unit for any visible damage before first use.
2. Only connect devices that meet the voltage requirements for each port.
3. Ensure proper ventilation if the unit is placed in a confined space.
4. Never remove the wiring cover or touch exposed terminals while the unit is in use.

## **Legal Information**

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The contents of this manual are subject to change without notice. Please obtain the latest version from BLUETTI official website.

If you have any questions or concerns about this manual, please contact BLUETTI support for further assistance.

**Shenzhen PowerOak Newener Co., Ltd.**

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Website: <https://www.bluettipower.com/>

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## 1. Safety Information

### 1.1 Safety Instructions

Before installing, operating, or maintaining this unit, please read this manual thoroughly and follow all safety precautions indicated on the unit and in this manual. Thus, for proper installation and use of this unit, it's crucial to adhere to the following guidelines:

- Always operate or store the unit in the conditions specified in this manual.
  - The installation and ambient conditions must comply with the regulations in the relevant international, national or regional standards.
  - Avoid unauthorized disassembly, equipment alterations, or software code modifications.
  - Avoid installation, operation, or maintenance in adverse weather.
  - Always turn off the power before performing electrical work.
  - Do not clean the unit with water.
  - Regularly inspect the device and accessories for damage or wear.
  - In case of fire, prioritize evacuation. If safe, cut power and use CO<sub>2</sub>/FM-200/ABC dry powder extinguishers.
  - Keep the unit away from heat sources, direct sunlight, and flammable/explosive materials.
  - Ensure installation area is well-ventilated; never block vents or openings.
  - Secure the unit on a stable surface (metal bracket, wall, or platform) to prevent falls.
  - Do not use near water or in humid environments; seal wiring ports with fireproof/waterproof materials.
  - Avoid touching the device during operation—exterior surfaces may become hot.
  - Keep out of reach of children and pets.
  - Do not stack objects on or near the unit during storage or use.
  - Immediately power off and contact BLUETTI support if malfunctions occur.
  - Check all safety components (screws, waterproof seals) are intact and tightened.
- **WARNING: WHEN A GROUND FAULT IS INDICATED, NORMALLY UNGROUNDED CONDUCTORS MAY BE GROUNDED.**

### 1.2 Installation Safety

- Avoid working with live electrical components.
- Before installation, double check the unit for any signs of damage or defects to minimize potential risks.
- Do not touch any terminal while the unit is running, as it may pose a risk of electric shock.
- Use a tester to check for dangerous voltage before touching any conductor or terminal.

### 1.3 Electrical Safety

#### 1.3.1 Grounding Requirements

- Always make the ground connection first during installation and remove it last during disassembly.

- Take care not to damage the grounding conductor.

### 1.3.2 Wiring Requirements

- Keep cables at least 1.18in (30mm) away from heat sources and devices that emit heat, as high temperatures can cause insulation to age or become damaged.
- Bundle cables of similar types together to reduce electromagnetic interference. Keep different types of cables at least 1.18in (30mm) apart and avoid twisting or crossing them.
- All cable must be securely connected, well-insulated, and of suitable specifications.
- Take necessary measures to protect cables when passing through pipes or holes.
- In cold temperatures, severe impacts or vibrations can cause the plastic coating of cables to become brittle and crack. To ensure safe installation:
  - a. Lay and install all cables at temperatures above 0°C (32°F). Handle cables with care, especially when working in cold environments.
  - b. If cables have been stored in temperatures below 0°C (32°F), store them at room temperature for at least 24 hours before installation.

### 1.4 Handling Requirements

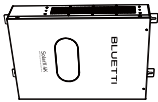
#### Recommended Number of People Based on the Weight of Product

| Weight                      | Number of people | Weight                       | Number of people |
|-----------------------------|------------------|------------------------------|------------------|
| <18kg (39.7lbs)             | 1                | 32kg-55kg (70.5lbs-121.3lbs) | 3                |
| 18kg-32kg (39.7lbs-70.5lbs) | 2                | >55kg (121.3lbs)             | 4 or a cart      |

### 1.5 Label Description

| Label                                                                             | Name                     | Description                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Discharge delay          | There is still residual voltage after the unit is powered off. Wait 5 minutes for complete discharge before performing maintenance.                                            |
|  | Grounding                | Grounding terminal                                                                                                                                                             |
|  | Electrical shock warning | The system generates high voltage during operation. The installation, commissioning, and maintenance should only be performed by qualified professionals or trained personnel. |
|  | Warning                  | Be careful. Hazards may occur during operation.                                                                                                                                |
|  | Read instruction         | Please read the instruction carefully before operating the energy storage system.                                                                                              |

2. What's in the Box



SolarX 4K  
Solar Charge Controller



Fixing Screw  
×4



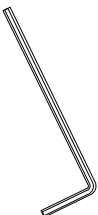
Grounding Screw



OT terminal



Knockout Connector

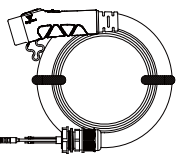


Hex Socket Wrench

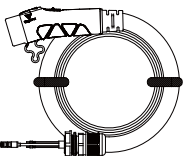


Documentation

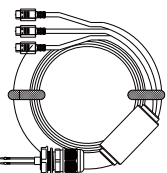
Please purchase the following DC output cables and other accessories at <https://www.bluettipower.com>



DC Output Cable  
(with P090A plug)



DC Output Cable  
(with P150D plug)



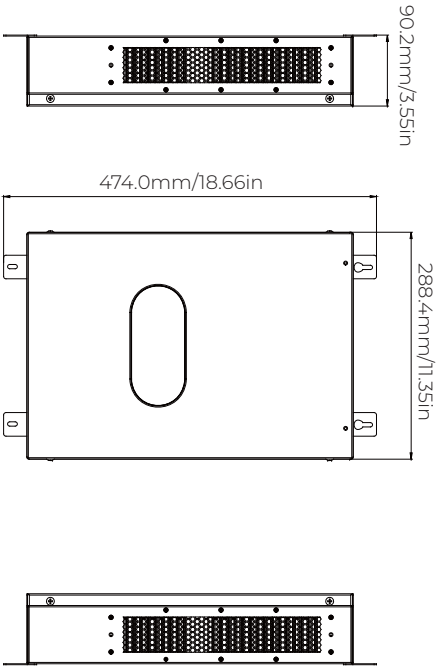
DC Output Cable  
(with XT60-F connectors)

Cable Size Guide

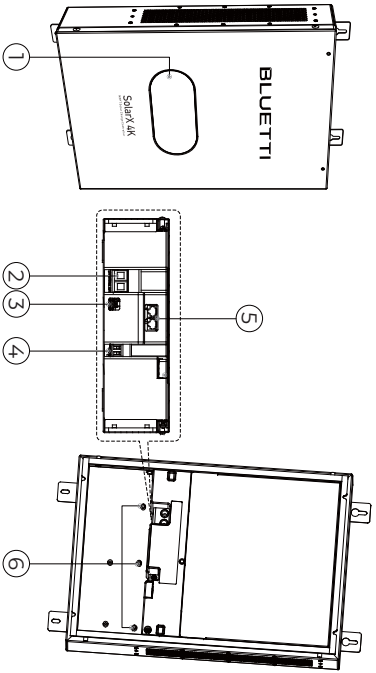
| Cable                                | Current   | Wire Gauge    |
|--------------------------------------|-----------|---------------|
| DC Output Cable<br>(with P090A plug) | 90 A Max. | 4 AWG (21mm²) |
| DC Output Cable<br>(with P150D plug) | 90A Max.  | 4 AWG (21mm²) |

### 3. Get to Know Your SolarX 4K

#### 3.1 Dimensions



#### 3.2 Overview



\* Used for grounding when powering certain appliances.

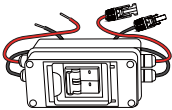
4. Install Your SolarX 4K

Notes:

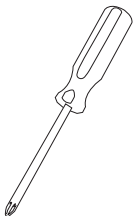
- Disconnect all electrical connections from the unit before installation.
- Do not install the unit below pipes, windows, or in areas prone to water leaks and accumulation.
- Do not block ventilation openings or heat dissipation pathways. Restricted airflow can lead to overheating and pose a fire risk.
- When moving the unit, be mindful of its weight and balance. Take care to avoid tipping or dropping it, as that could result in damage to the unit or personal injury.

4.1 Preparation

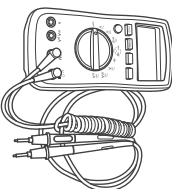
4.1.1 Required Tools and Accessories



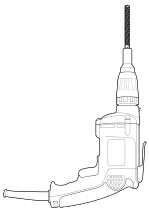
Lockable PV Switch  
(≥600V, ≥20A)



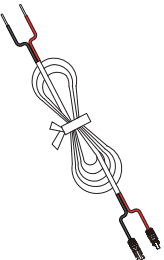
Screwdriver



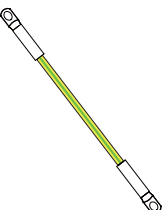
Multimeter



Drill Kit  
(For hard wall installation)



PV Input Cable



Grounding Cable

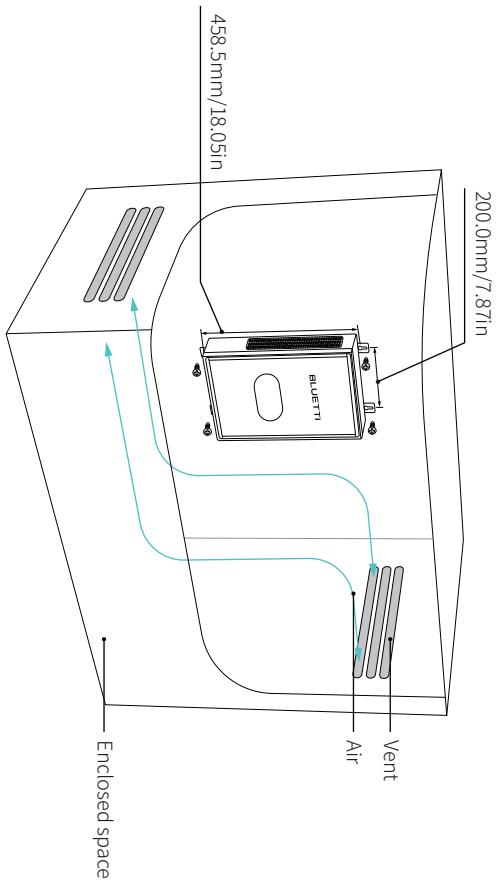
Cable Size Guide

| Cable           | Current  | Wire Gauge                 | Note                             |
|-----------------|----------|----------------------------|----------------------------------|
| PV Input Cable  | 20A Max. | 10 AWG (5mm <sup>2</sup> ) | Red: positive<br>Black: negative |
| Grounding Cable | 25A Max. | 10 AWG (5mm <sup>2</sup> ) | Yellow-green cable               |

4.1.2 Mount the SolarX 4K

**Note:** Before drilling, check for nearby water pipes or electrical cables to avoid any hazards.

**Step 1:** Select a suitable installation location. Measure there's at least 15.7in (400mm) of space around the unit for cables and airflow. Mark the drill points as shown below.



|                                |                 |                 |                 |                 |                 |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |
| <br>Fire or Flammable Material | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down | <br>Upside down |

Step 2: For non-wooden walls, drill holes at the marked points and insert the anchors.  
For wooden walls, skip this step and move to Step 3.

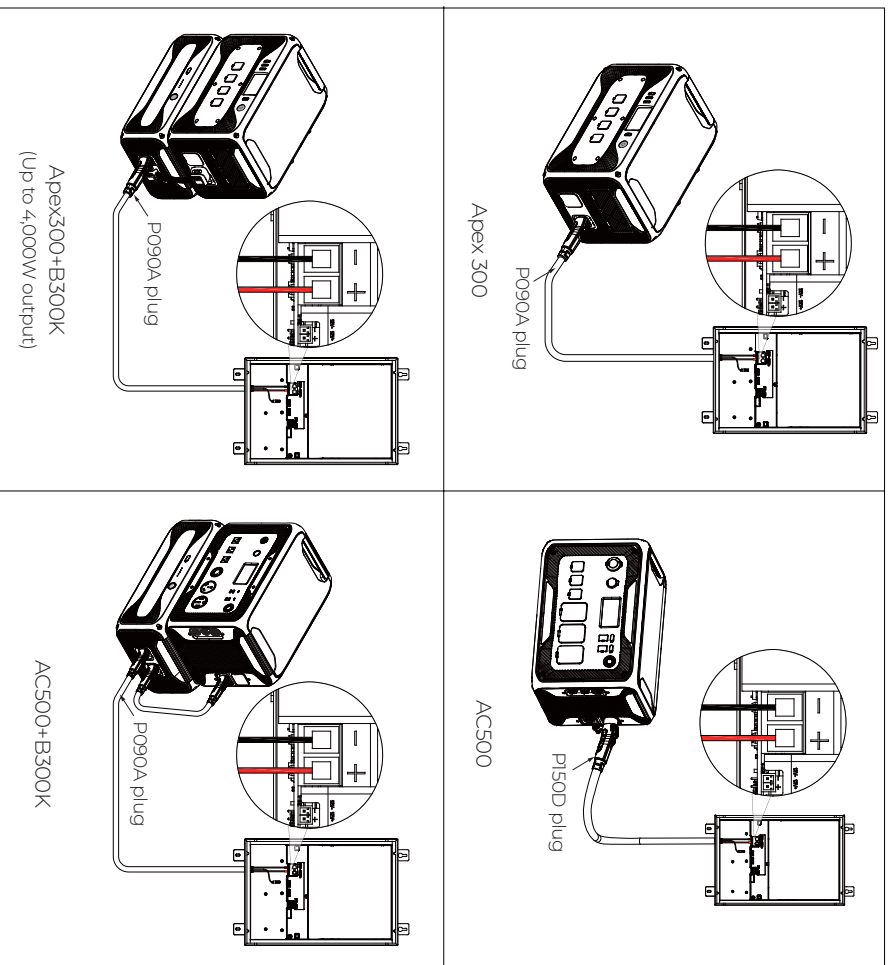
Step 3: Secure the unit by driving screws into the wooden wall or anchors. It's recommended to have 2 people for this.

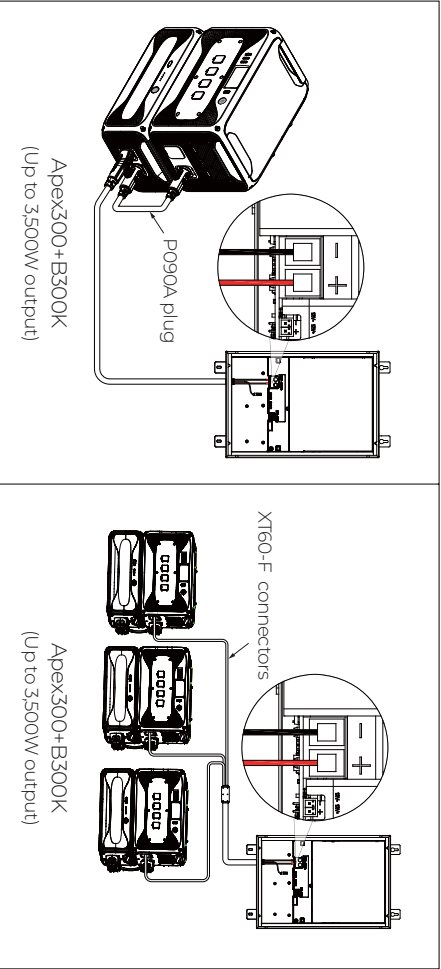
Step 4: Ensure all screws are firmly tightened.

**Note:** The specifications listed are based on the maximum current limit for each SolarX 4K port. For best performance and safety, use the shortest and thickest cables possible. Undersized cables can overheat and cause a fire risk. If you're unsure about the right cable size, contact BLUETTI support or consult a professional.

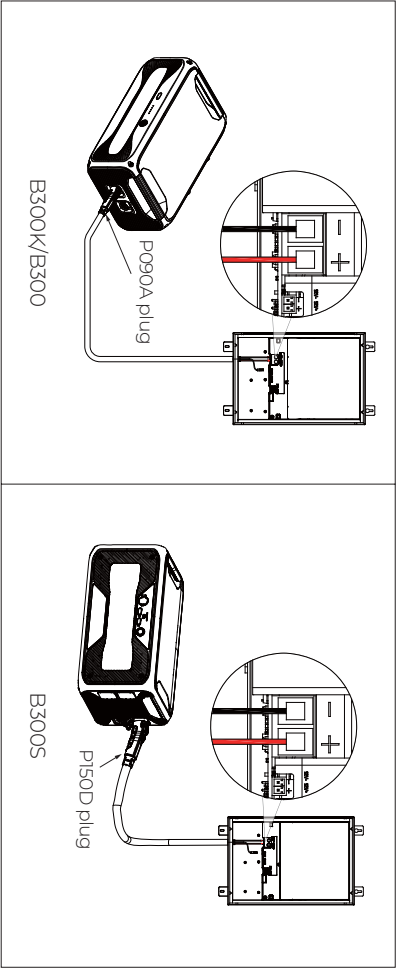
## 4.2 DC Output Wiring

### 4.2.1 Connecting to Inverters





#### 4.2.2 Connecting to Battery Packs



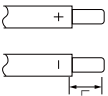
**Notes:**

- Choose the output cable based on your model.
- For P090A or PT50D plugs, push the switch on the plug to lock it.

4.2.3 Connecting to Lead-Acid Batteries

The SolarX 4K employs a two-stage charging process for lead-acid batteries, starting with constant current (CC) charging, followed by constant voltage (CV) charging. It provides up to 20A of current with a maximum voltage of 57.6V.

Recommended Output Cable Size

|                                                                                     | Cable Length               | Stripping Depth (L) | Wire Gauge   | Torque     |
|-------------------------------------------------------------------------------------|----------------------------|---------------------|--------------|------------|
|  | 1.5m-3m<br>(4.92ft-9.84ft) | 20mm<br>(0.787 in)  | 6AWG to 2AWG | 2Nm to 3Nm |

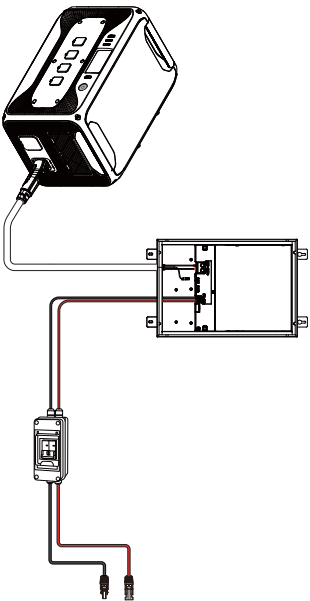
Warning:

When using lead-acid batteries or non-BLUETTI battery packs:

- 1. Ensure correct wiring polarity. Damage caused by reversed polarity is not covered under warranty.
- 2. Use a properly rated overcurrent protection device, like a fuse or DC circuit breaker.

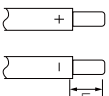
4.3 PV Input Wiring

4.3.1 Connect External PV Switch



Step 1: Make sure the PV switch is in the "OFF" position.

Step 2: Prepare two stripped power cables—one negative (black) and one positive (red). Refer to the recommended specifications below.

|                                                                                   | Cable Length  | Stripping Depth (L) | Wire Gauge       | Torque     |
|-----------------------------------------------------------------------------------|---------------|---------------------|------------------|------------|
|  | <10m (32.8ft) | 8mm (0.315in)       | 12 AWG to 10 AWG | 2Nm to 3Nm |

Step 3: Connect the black cable to the SolarX 4K's PV- port and the red cable to the PV+ port. Make sure no exposed cables remain.

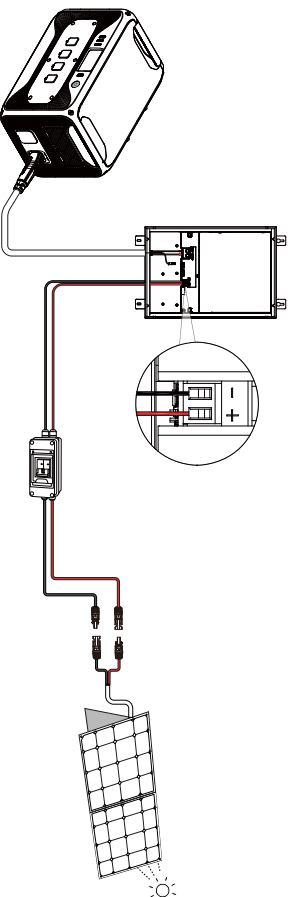
Step 4: Double-check that all cable connections are secure.

**Warning:** Before servicing any connected devices, physically disconnect them from the SolarX 4K.

#### 4.3.2 Connect Solar Panels

**Notes:**

- Make sure your solar panel(s) meet the following requirements:  
Voc: 150V-500V Current: 20A Max. Power: 4,200W Max.
- Do not ground the solar panels' positive and negative terminals.
- Make sure the solar panels are connected with correct polarity.

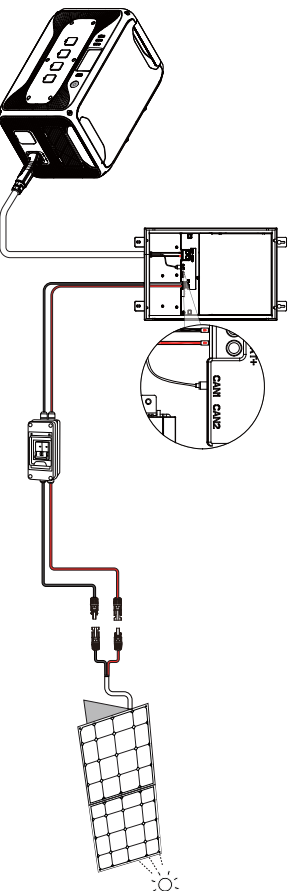


Step 1: Make sure the PV switch is in the "OFF" position.

Step 2: Connect the solar panels' negative terminal to the PV- port of the switch and the positive terminal to the PV+ port.

Step 3: Double-check that all cable connections are secure.

#### 4.4 CAN Communication Connection



**Note:** When using BLUETTI battery packs, make sure the Ethernet cable is securely connected to the CAN communication port.

#### 4.5 Wiring Check

- Ensure the grounding cable is securely connected to the grounding terminal.
- Check that the PV input and DC output cables are connected with the correct polarity.
- Verify that the PV switch is properly connected with the correct polarity.
- Confirm the communication cable is installed correctly.

Once all checks are complete, close the cover, tighten the screws, and your SolarX 4K is ready for use.

### 5. Use Your SolarX 4K

#### 5.1 Power On/Off

**Note:** Before use, double-check that all connections are correct and secure. Once confirmed, close the cover. Keep the casing intact during operation, and do not open the cover to avoid electric shock.

##### • Power On

Turn on the external PV switch. SolarX 4K will power on and automatically activate the DC output to the connected battery modules. If an inverter is connected, start it manually. The indicator will turn green once the system passes the self-check.

• **Initial Setup**

Bind the unit in the BLUETTI app. Refer to the section "Update Firmware via BLUETTI App" in the appendix for guidance.

*Note:* Configure the ports in the app before first use.

• **Power Off**

Tap Shutdown in the app to stop the SolarX 4Ks output. Then, disconnect the external PV switch to power off the system.

**5.2 Indicator**

| Indicator Status | Description                      |
|------------------|----------------------------------|
| Steady Green     | Self-check passed; fully charged |
| Flashing Green   | Self-check passed; charging      |
| Steady Yellow    | System issue detected            |
| Steady Red       | Unable to operate                |

**6. Maintenance and Care**

Always power off the unit before performing maintenance tasks such as cleaning, checking connections, and verifying grounding. The SolarX 4K requires maintenance every 3 months:

- Inspect and clean the fan, fan guard, and heat sink if dust or blockages are present.
- Ensure that the fan operates smoothly without any abnormal noise.
- Check and tighten input and output cable connections using a torque wrench. For frequent mobile use, inspect the connections at least once a month.

7. Specifications

| PV Input                   |                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. Input Power           | 4,200W                                                                                                                                                                                                                                                                                                                           |
| Open-circuit Voltage       | 500VDC                                                                                                                                                                                                                                                                                                                           |
| Startup Voltage            | 150VDC                                                                                                                                                                                                                                                                                                                           |
| MPPT Operating Voltage     | 120VDC to 450VDC                                                                                                                                                                                                                                                                                                                 |
| Number of MPPT             | 1                                                                                                                                                                                                                                                                                                                                |
| Max. Input Current         | 16A                                                                                                                                                                                                                                                                                                                              |
| Max. Short Circuit Current | 20A                                                                                                                                                                                                                                                                                                                              |
| DC Output                  |                                                                                                                                                                                                                                                                                                                                  |
| Max. Output Power          | 4,000W                                                                                                                                                                                                                                                                                                                           |
| Max. Output Voltage        | 58V                                                                                                                                                                                                                                                                                                                              |
| Min. Output Voltage*       | 35V                                                                                                                                                                                                                                                                                                                              |
| Max. Output Current        | 80A                                                                                                                                                                                                                                                                                                                              |
| Communication Interface    | RJ45                                                                                                                                                                                                                                                                                                                             |
| General                    |                                                                                                                                                                                                                                                                                                                                  |
| MPPT Efficiency            | 99% Max.                                                                                                                                                                                                                                                                                                                         |
| Connectivity               | CAN 2.0/Bluetooth/WiFi                                                                                                                                                                                                                                                                                                           |
| Protections                | <ul style="list-style-type: none"><li>• Output overcurrent protection</li><li>• Output short circuit protection</li><li>• Input overvoltage protection</li><li>• Output overvoltage protection</li><li>• Input reverse polarity protection</li><li>• Output reverse polarity protection</li><li>• Insulation detection</li></ul> |
| Operating Temperature      | -20°C to 55°C (-4°F to 131°F)<br>Power output decreases above 45°C (113°F).                                                                                                                                                                                                                                                      |
| Overtemperature Protection | 55°C (131°F)                                                                                                                                                                                                                                                                                                                     |
| Storage Temperature        | -20°C to 55°C (-4°F to 131°F)                                                                                                                                                                                                                                                                                                    |
| Operating Humidity         | 5% to 95% RH                                                                                                                                                                                                                                                                                                                     |
| Operating Altitude         | ≤ 2000m (6,562ft)                                                                                                                                                                                                                                                                                                                |
| Noise Level                | ≤ 50dB                                                                                                                                                                                                                                                                                                                           |
| Cooling Method             | Air Cooling                                                                                                                                                                                                                                                                                                                      |
| IP Rating                  | IP22                                                                                                                                                                                                                                                                                                                             |
| Dimensions (L × W × H)     | 11.35in×18.66in×3.55in (288.3mm×474.0mm×90.2mm)                                                                                                                                                                                                                                                                                  |
| Net Weight                 | About 16.8lbs (7.6kg)                                                                                                                                                                                                                                                                                                            |

\*In PV mode, the minimum allowable output voltage is 18V.

## 8. Troubleshooting

| Protection Code | Description                              | Solutions                                                                                                                                                                                                              |
|-----------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R001            | Hardware battery overcurrent protection  | <ul style="list-style-type: none"> <li>• Please make sure the output current is less than 80A and restart.</li> </ul>                                                                                                  |
| R002            | Hardware battery overvoltage protection  | <ul style="list-style-type: none"> <li>• Please make sure the output voltage is less than 58V and restart.</li> </ul>                                                                                                  |
| R003            | Software battery overcurrent protection  | <ul style="list-style-type: none"> <li>• Please make sure the output current is less than 80A and restart.</li> </ul>                                                                                                  |
| R004            | Software battery overvoltage protection  | <ul style="list-style-type: none"> <li>• Please make sure the output voltage is less than 58V and restart.</li> </ul>                                                                                                  |
| R005            | Software battery undervoltage protection | <ul style="list-style-type: none"> <li>• Please make sure the output voltage is greater than 34V and restart.</li> </ul>                                                                                               |
| R010            | Hardware inductor overcurrent protection | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact technical support personnel.</li> </ul>                                                                      |
| R020            | Hardware bus overvoltage protection      | <ul style="list-style-type: none"> <li>• Please make sure the input voltage is less than 500V and restart.</li> </ul>                                                                                                  |
| R021            | Software bus overcurrent protection      | <ul style="list-style-type: none"> <li>• Please make sure the input current is less than 77A and restart.</li> </ul>                                                                                                   |
| R022            | Software bus overvoltage protection      | <ul style="list-style-type: none"> <li>• Please make sure the input voltage is less than 500V and restart.</li> </ul>                                                                                                  |
| R024            | Software bus reverse Current Protection  | <ul style="list-style-type: none"> <li>• Please make sure the input reverse current is less than 17A and restart.</li> </ul>                                                                                           |
| R030            | Transformer overtemperature protection   | <ul style="list-style-type: none"> <li>• Please turn off the power, wait for 10 minutes, and restart after the temperature drops.</li> </ul>                                                                           |
| R031            | Radiator overtemperature protection      | <ul style="list-style-type: none"> <li>• Please turn off the power, wait for 10 minutes, and restart after the temperature drops.</li> </ul>                                                                           |
| R032            | Hardware overtemperature protection      | <ul style="list-style-type: none"> <li>• Please turn off the power, wait for 10 minutes, and restart after the temperature drops.</li> </ul>                                                                           |
| R033            | Hardware overtemperature protection      | <ul style="list-style-type: none"> <li>• Please turn off the power, wait for 10 minutes, and restart after the temperature drops.</li> </ul>                                                                           |
| R040            | Fan failure protection                   | <ul style="list-style-type: none"> <li>• Please open the cover and check whether the fan circuit is connected normally. After ensuring that the circuit is connected normally, close the cover and restart.</li> </ul> |
| R041            | Overload protection                      | <ul style="list-style-type: none"> <li>• Please make sure the output power is less than 4000W and restart.</li> </ul>                                                                                                  |
| R042            | Overpower protection                     | <ul style="list-style-type: none"> <li>• Please make sure the output power is less than 4000W and restart.</li> </ul>                                                                                                  |
| R050            | Software insulation detection            | <ul style="list-style-type: none"> <li>• Please make sure the input is grounded and restart.</li> </ul>                                                                                                                |

| Fault code reporting | Description                    | Solutions                                                                                                                                             |
|----------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| S001                 | EEPROM write error             | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact the technical service personnel.</li> </ul> |
| S003                 | Battery current sampling error | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact the technical service personnel.</li> </ul> |
| S004                 | Bus current sampling error     | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact the technical service personnel.</li> </ul> |
| S006                 | NTC sampling fault             | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact the technical service personnel.</li> </ul> |
| S010                 | PV input abnormality           | <ul style="list-style-type: none"> <li>• Please ensure that the input voltage is between 150V-500V and restart.</li> </ul>                            |
| S011                 | Output abnormality             | <ul style="list-style-type: none"> <li>• Please ensure that the output voltage is between 35V-58V and restart.</li> </ul>                             |
| S012                 | Communication fault            | <ul style="list-style-type: none"> <li>• Please restart the device. If the fault persists, please contact the technical service personnel.</li> </ul> |

### FAQ (Frequently Asked Question)

**Q1:** Can I use third-party solar panels with this product?

**A:** Yes, you can use third-party solar panels with open circuit voltage of 150V-500V. Avoid mixing different types of solar panels.

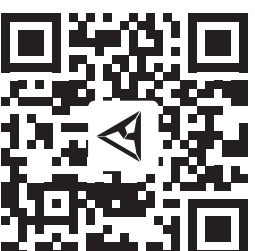
## Appendix

### Update Firmware via BLUETTI App

Keeping firmware updated is IMPORTANT for optimal performance. For detailed instructions, refer to the app user manual in the app. Using the Elite 200 V2 upgrade as an example.

#### 1. Download the BLUETTI app

Scan the QR code or search for "BLUETTI" in the App Store or Google Play to download the app.



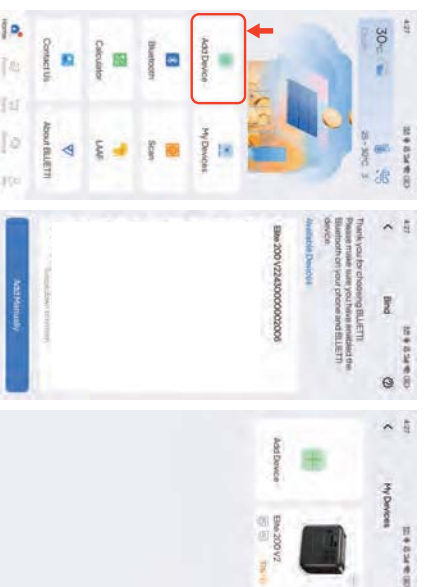
#### 2. Log in or sign up

Log in with a BLUETTI account. If there is no account, create one by following the on-screen instructions.



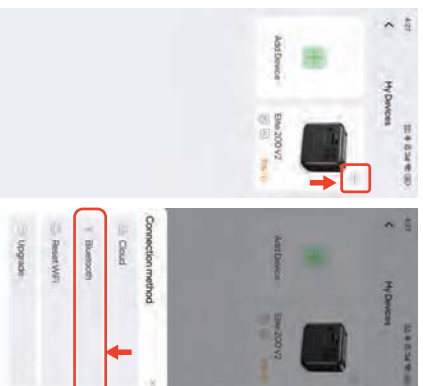
#### 3. Bind the unit

- Tap Add Device directly or access My Devices > Add Device to start the process.
- Select the unit from the available device list, or choose Add Manually and enter the unit's serial number (SN).
- Alternatively, tap Scan on the Home page or in Add Device page to bind via QR code.



#### 4. Connect via Bluetooth

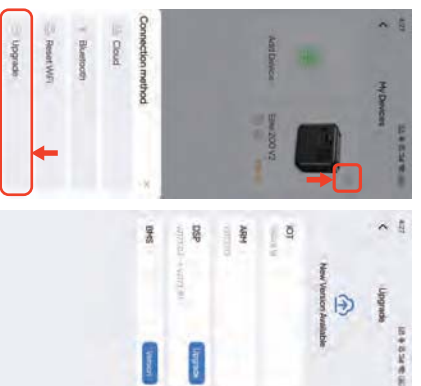
On the My Devices page, tap the unit and select Bluetooth as the connection method.



#### 5. Check for Firmware Updates

Tap Upgrade to access the Upgrade page.

The app will check for the latest firmware version available for the unit.



#### 6. Download and Install the Update

If a new firmware update is available, tap

Upgrade and follow the on-screen instructions.

#### Notes:

- Ensure the unit remains powered on and connected during the update.
- Keep your phone and the unit close together (recommended range: 16.4ft / 5m).
- Do not exit app until done.

## Compliance

### • FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### IMPORTANT NOTE: FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

### • IC Caution

This device contains licence-exempt transmitter(s) / receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

**RF exposure statement:** The equipment complies with ISED Radiation exposure limits set forth for uncontrolled environments. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**Déclaration d'exposition aux RF :** L'équipement est conforme aux limites d'exposition aux rayonnements définies pour les environnements non contrôlés. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

CAN ICES (B) / NMB (B)

## Need Help? We're here for you!

 +1 800-200-2980 (Mon-Sun 9:00-17:00)

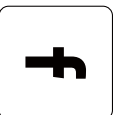
 [service@bluettipower.com](mailto:service@bluettipower.com)



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### Visit Us

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**BLUETTI Power Inc.**

6185 S Valley View Blvd, Ste D, Las Vegas, NV 89118, US

# SolarX 4K

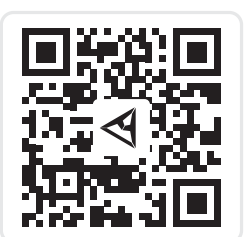
## Contrôleur de charge solaire

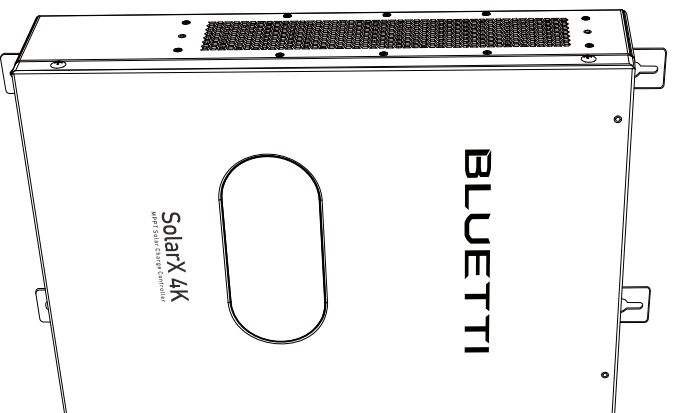
### Manuel d'utilisation v1.5

#### Consignes importantes

Pour des performances optimales, mettez à jour votre appareil avec le dernier microprogramme avant la première utilisation. Consultez l'annexe « Mettre à jour le microprogramme via l'application BLUETTI » pour obtenir des instructions.

Lisez et comprenez ce manuel avant utilisation et conservez-le à portée de main afin de vous y référer si nécessaire.





### Avertissement

1. Inspectez l'appareil pour détecter tout dommage visible avant la première utilisation.
2. Connectez uniquement les appareils qui répondent aux exigences de tension pour chaque port.
3. Assurez une ventilation adéquate si l'appareil est placé dans un espace confiné.
4. Ne retirez jamais le couvercle du câblage et ne touchez jamais les bornes exposées lorsque l'appareil est en cours d'utilisation.

## Informations légales

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### Avis

Les produits et services de BLUETTI sont soumis aux conditions générales convenues lors de l'achat. Certains aspects décrits dans ce manuel peuvent ne pas être disponibles dans le cadre de votre contrat d'achat. Sauf indication contraire dans le contrat, BLUETTI ne fait aucune déclaration ni garantie expresse ou implicite concernant le contenu de ce manuel.

Le contenu de ce manuel peut être modifié sans préavis. Veuillez obtenir la dernière version sur le site officiel de BLUETTI.

Si vous avez des questions ou des préoccupations concernant ce manuel, veuillez contacter l'équipe de support BLUETTI pour obtenir de l'aide.

**Shenzhen PowerOak Newener Co., Ltd.**

19F, Block A, Kaidaer Bldg., No.168 Tongsha Rd, Shenzhen, Chine

Site web : <https://www.bluettipower.com/>

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## 1. Informations sur la sécurité

### 1.1 Consignes de sécurité

Avant d'installer, d'utiliser ou d'entretenir cet appareil, veuillez lire attentivement ce manuel et suivre toutes les précautions de sécurité indiquées sur l'unité et dans ce manuel. Ainsi, pour une installation et une utilisation correctes de cet appareil, il est essentiel de respecter les directives suivantes :

- Utilisez ou stockez toujours l'appareil dans les conditions spécifiées dans ce manuel.
  - Les conditions d'installation et d'environnement doivent être conformes aux normes internationales, nationales ou régionales en vigueur.
  - Évitez tout démontage non autorisé, toute modification de l'équipement ou toute modification du code logiciel.
  - Évitez l'installation, l'utilisation ou l'entretien par mauvais temps.
  - Éteignez toujours la source d'alimentation avant d'effectuer tout travail électrique.
  - Ne nettoyez pas l'appareil avec de l'eau.
  - Inspectez régulièrement l'appareil et ses accessoires pour vérifier qu'ils ne sont pas endommagés ni usés.
  - En cas d'incendie, privilégiez l'évacuation. Si la situation est sans danger, coupez l'alimentation et utilisez des extincteurs à poudre sèche CO<sub>2</sub>/FM-200/ABC.
  - Gardez l'appareil à l'écart des sources de chaleur, de la lumière directe du soleil et des matériaux inflammables/explosifs.
  - Assurez-vous que la zone d'installation est bien ventilée ; ne bloquez jamais les événements ou les ouvertures.
  - Fixez l'appareil sur une surface stable (support métallique, mur ou plateforme) pour éviter les chutes.
  - Ne l'utilisez pas à proximité de l'eau ou dans des environnements humides ; scellez les ports de câblage avec des matériaux ignifuges/étanches.
  - Évitez de toucher l'appareil pendant son fonctionnement ; les surfaces extérieures peuvent devenir chaudes.
  - Tenez l'appareil hors de portée des enfants et des animaux domestiques.
  - N'empilez pas d'objets sur ou à proximité de l'appareil pendant le stockage ou l'utilisation.
  - Arrêtez immédiatement l'appareil et contactez le support de BLUETTI en cas de dysfonctionnement.
  - Vérifiez que tous les composants de sécurité (vis, joints d'étanchéité) sont intacts et serrés.
- AVERTISSEMENT : LORSQU'UN DÉFAUT DE TERRE EST INDiqué, DES CONDUCTEURS QUI NE SONT PAS MIS À LA TERRE NORMALEMENT PEUVENT ÊTRE MIS À LA TERRE.**
- ### 1.2 Sécurité de l'installation
- Évitez de travailler avec des composants électriques sous tension.
  - Avant l'installation, vérifiez à nouveau l'appareil pour détecter tout signe de dommage ou de défaut afin de minimiser les risques potentiels.
  - Ne touchez aucune borne pendant que l'appareil fonctionne, car cela peut présenter un risque de choc électrique.
  - Utilisez un testeur pour vérifier si la tension pourrait être dangereuse avant de toucher un conducteur ou une borne.

1.3 Sécurité électrique

1.3.1 Exigences de mise à la terre

- Effectuez toujours la connexion à la terre en premier lors de l'installation et retirez-la en dernier lors du démontage.
- Veillez à ne pas endommager le conducteur de terre.

1.3.2 Exigences de câblage

- Gardez les câbles à au moins 30 mm des sources de chaleur et des appareils qui émettent de la chaleur, car des températures élevées peuvent provoquer le vieillissement ou l'endommagement de l'isolation.
- Regroupez les câbles de types similaires afin de réduire les interférences électromagnétiques. Gardez les différents types de câbles à au moins 30 mm l'un de l'autre et évitez de les tordre ou de les croiser.
- Tous les câbles doivent être connectés solidement, bien isolés et conformes aux spécifications appropriées.
- Prenez les mesures nécessaires pour protéger les câbles lors du passage dans des tuyaux ou des trous.
- Par temps froid, des impacts ou des vibrations violents peuvent rendre le revêtement plastique des câbles cassant et le fissurer. Pour garantir une installation sûre :
  - a. Posez et installez tous les câbles à des températures supérieures à 0 °C. Manipulez les câbles avec précaution, en particulier lorsque vous travaillez dans des environnements froids.
  - b. Si les câbles ont été stockés à des températures inférieures à 0 °C, stockez-les à température ambiante pendant au moins 24 heures avant l'installation.

1.4 Description de l'étiquette

| Étiquette                                                                         | Nom                   | Description                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Retard de décharge    | Il reste une tension résiduelle après la mise hors tension de l'appareil. Attendez 5 minutes pour une décharge complète avant d'effectuer l'entretien.                                                         |
|  | Mise à la terre       | Borne de mise à la terre                                                                                                                                                                                       |
|  | Choc électrique       | Le système génère une haute tension pendant le fonctionnement. L'installation, la mise en service et la maintenance doivent être effectuées uniquement par des professionnels qualifiés ou du personnel formé. |
|  | Avertissement         | Attention. Des dangers peuvent survenir pendant le fonctionnement.                                                                                                                                             |
|  | Lire les instructions | Veillez lire attentivement les instructions avant d'utiliser le système de stockage d'énergie.                                                                                                                 |

1.5 Exigences de manipulation

Nombre de personnes recommandé en fonction du poids du produit

| Poids         | Nombre de personnes | Poids         | Nombre de personnes |
|---------------|---------------------|---------------|---------------------|
| <18 kg        | 1                   | 32 kg - 55 kg | 3                   |
| 18 kg - 32 kg | 2                   | >55 kg        | 4 ou un chariot     |

2. Contenu



Contrôleur de charge  
solaire SolarX 4K



Vis de fixation  
×4



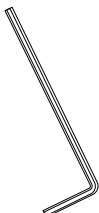
Vis de mise à la terre



Borne OT



Connecteur défonçable

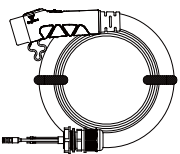


Ciè à douille hexagonale

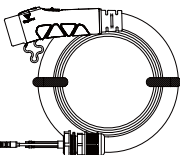


Documentation

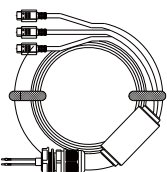
Achetez les câbles de sortie CC et autres accessoires suivants sur <https://www.bluettipower.com>



Câble de sortie CC  
(avec prise P090A)



Câble de sortie CC  
(avec prise P150D)



Câble de sortie CC  
(avec prise XT60)