

# BlueSpark Series

Residential All-In-One Energy Storage System

## E4KT-12KT-D22 Inverter

(E4KT/E5KT/E6KT/E8KT/E10KT/E10KTBE / E12KT-D22)

## Battery Pack 5.1kWh

(BP48100PF1A-G2)



KSTAR Sync APP



KSTAR Europe  
Official Website

### Quick Installation Guide (Global)

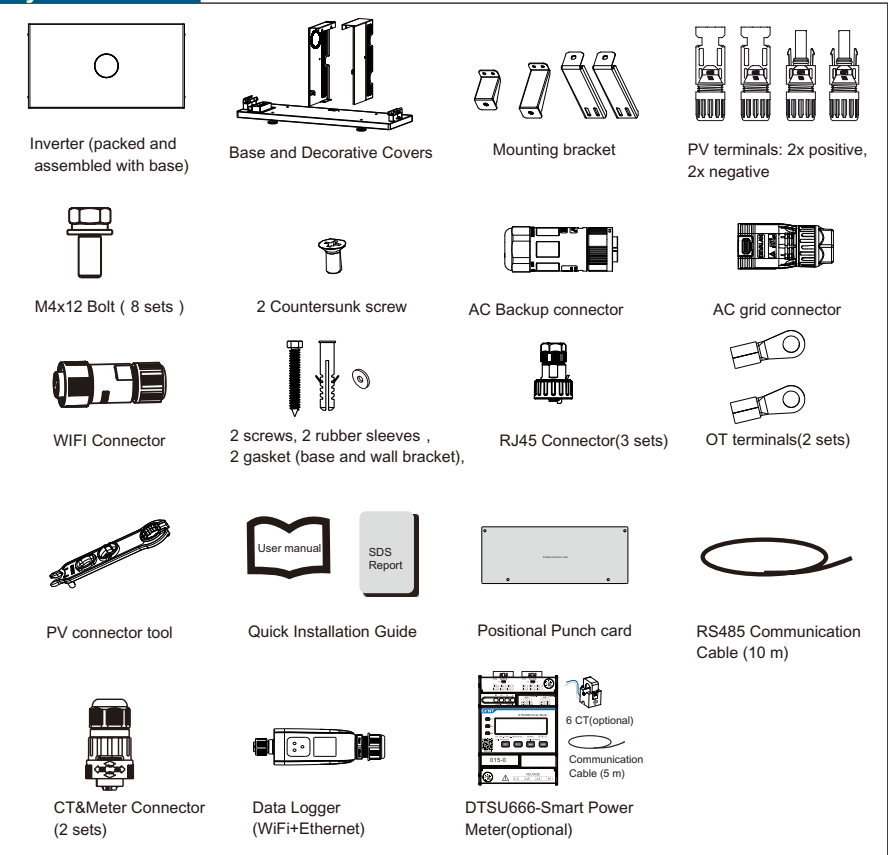
Copyright @ Shenzhen Kstar New Energy Co., Ltd. 2026. All rights reserved.  
(2026071Ver:1.3)

## 1. Safety Instructions

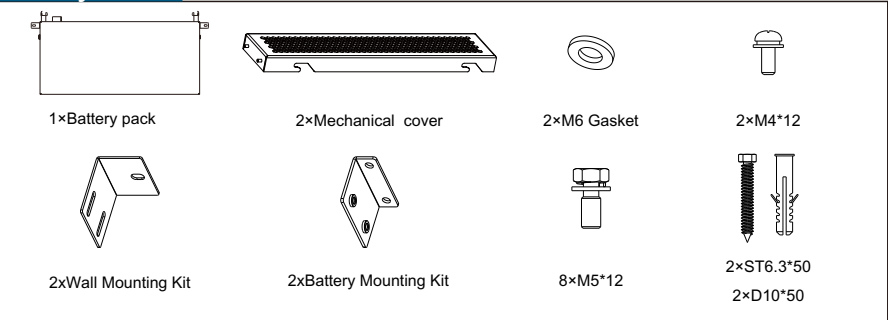
- The information in this quick installation guide is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Strictly follow the installation, operation, and configuration instructions in this guide and user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions.

## 2 Scope of Delivery

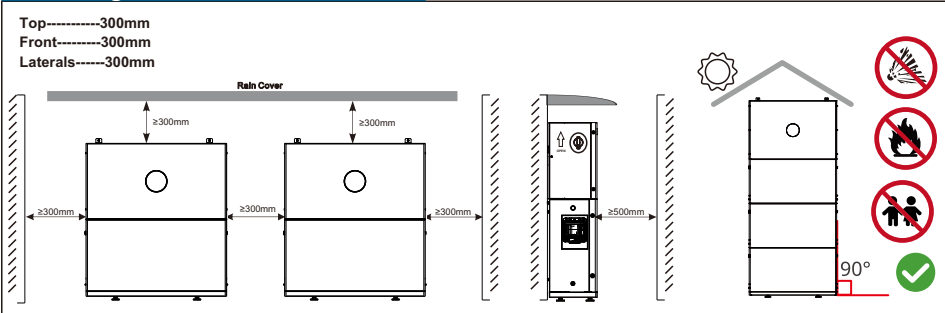
### Hybrid Inverter



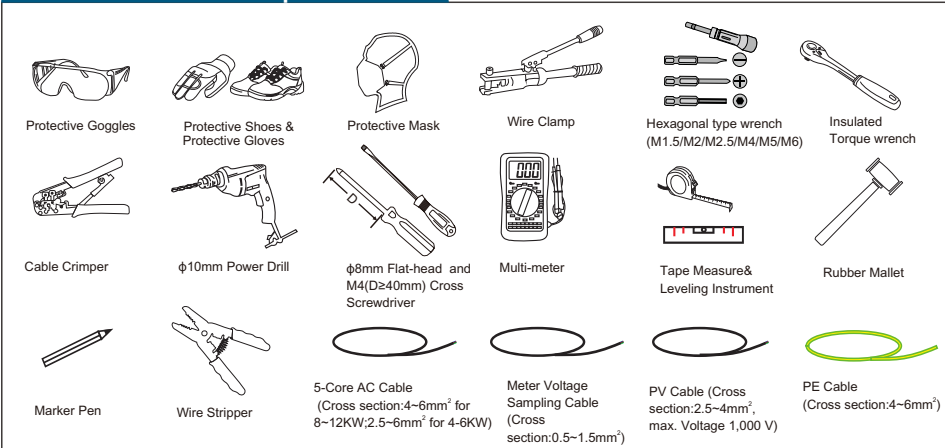
### Battery Pack



### Mounting Location & Clearances

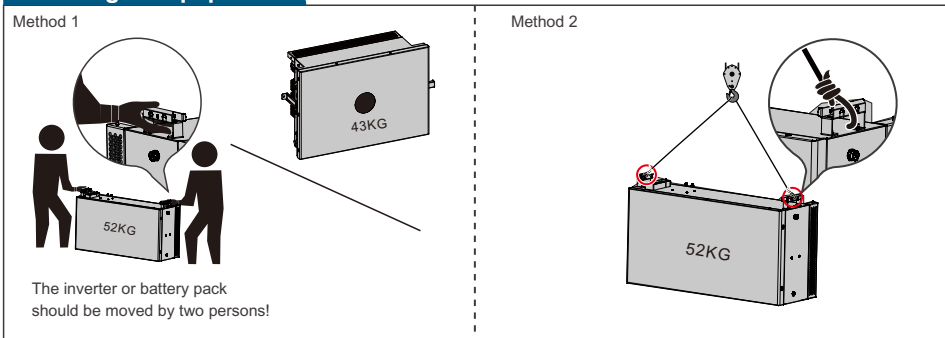


### Installation Tools & Required Cables

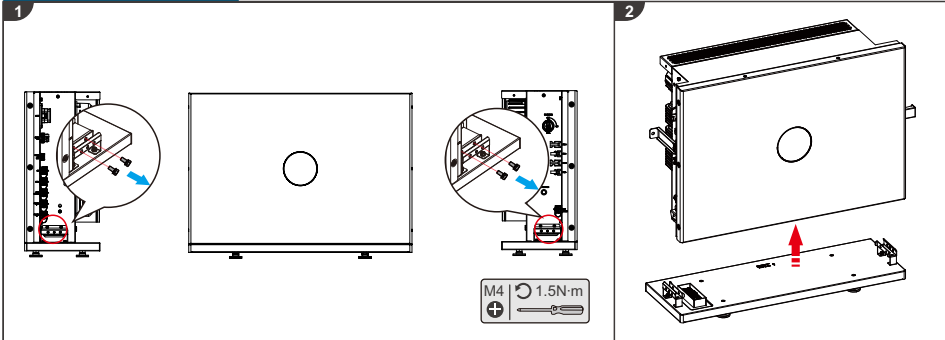


## 3 Mechanical Installation

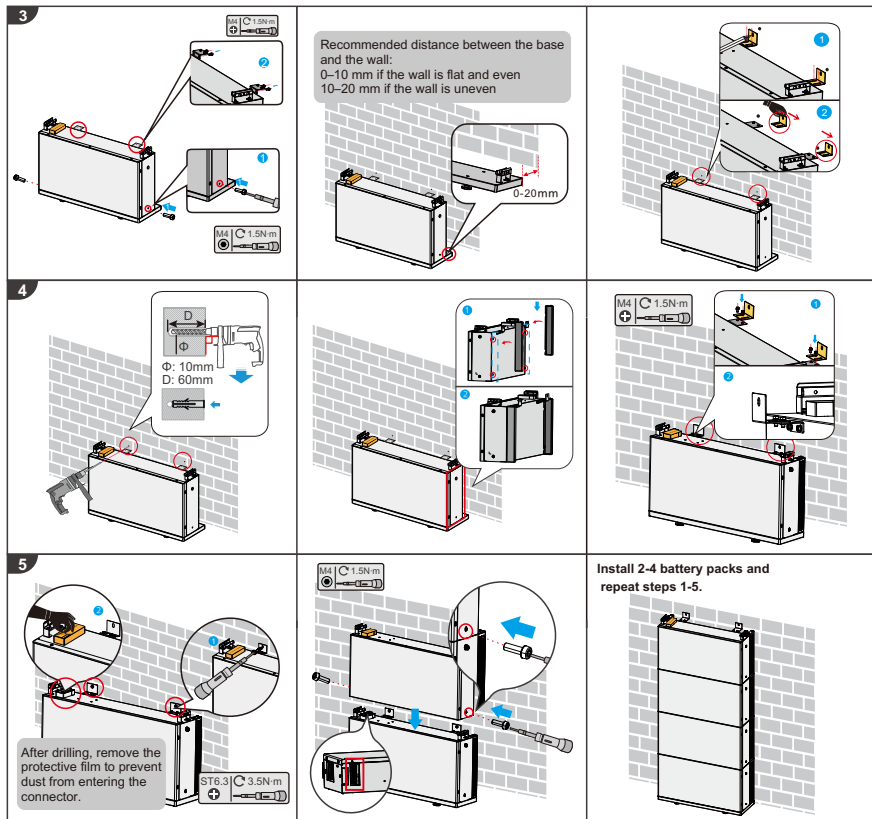
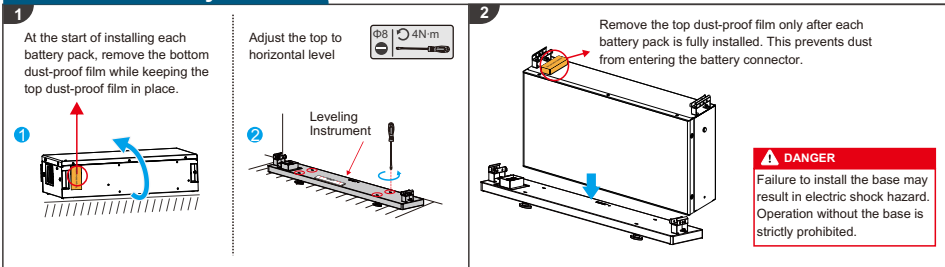
### Handling of Equipment



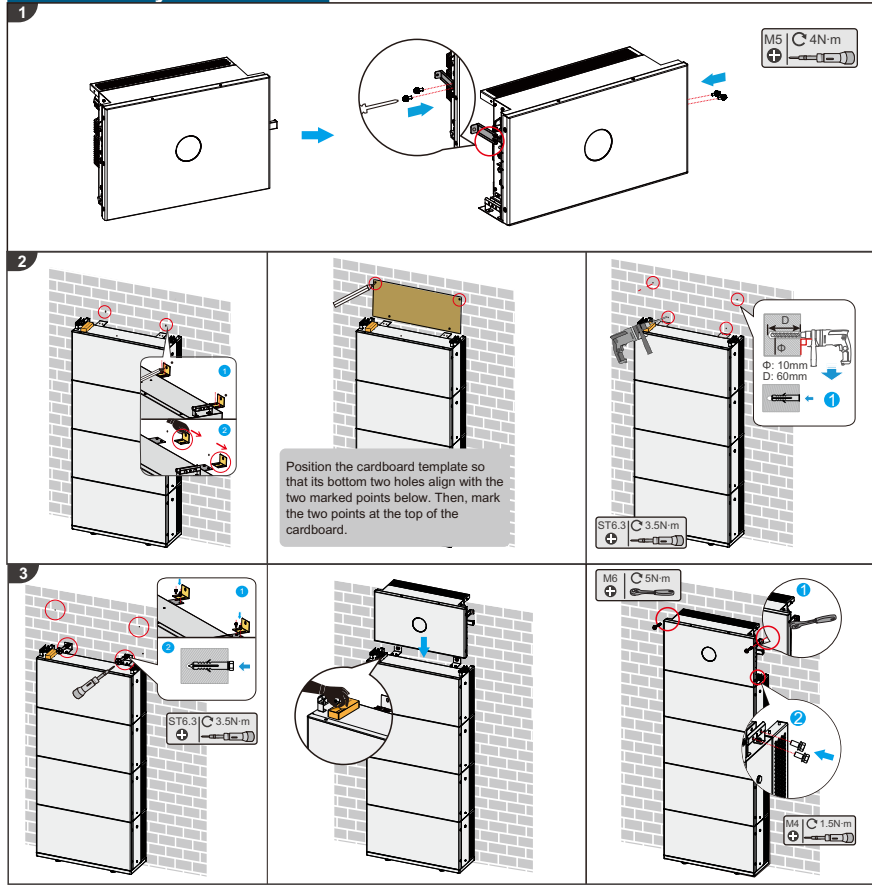
### Remove the Base



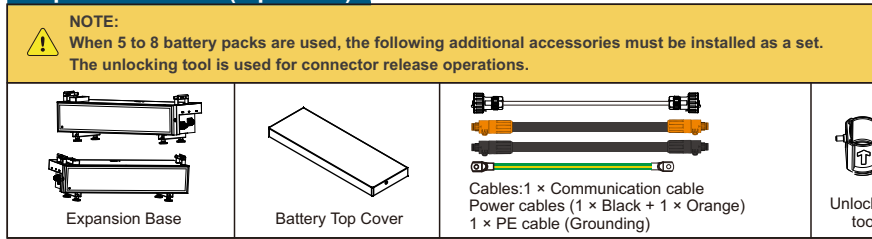
### Install the Battery Pack



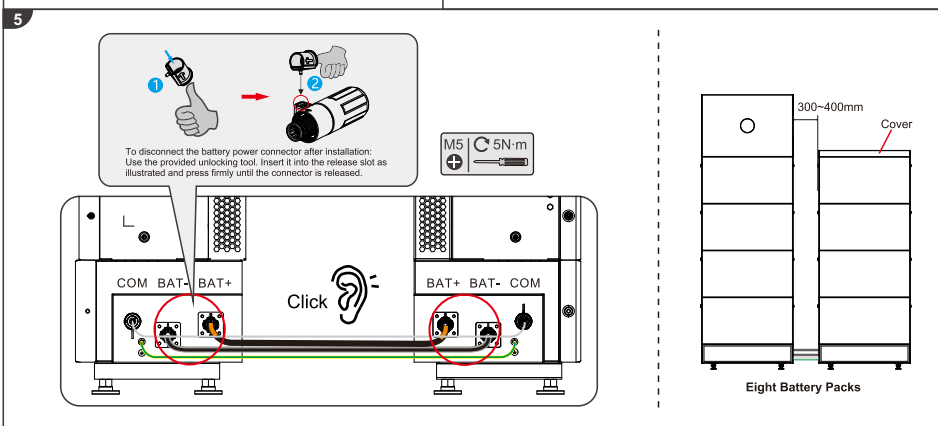
### Install the hybrid inverter



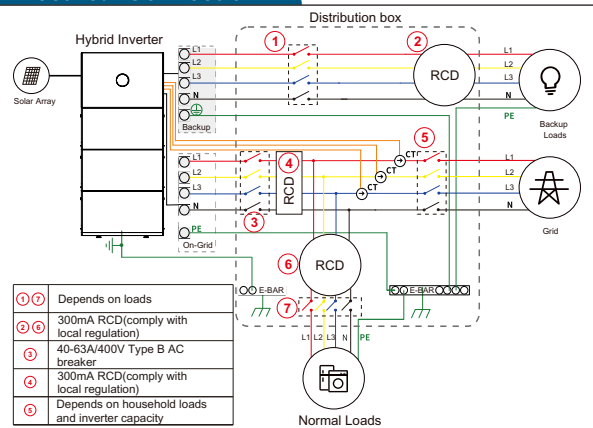
### Expansion Base (Optional)



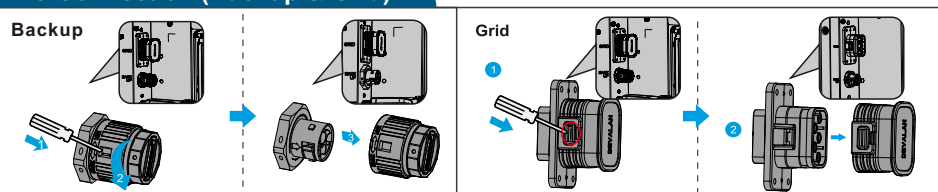
## Dual-tower Installation (Optional)



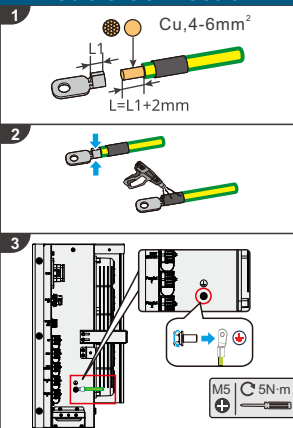
## Electrical Connection



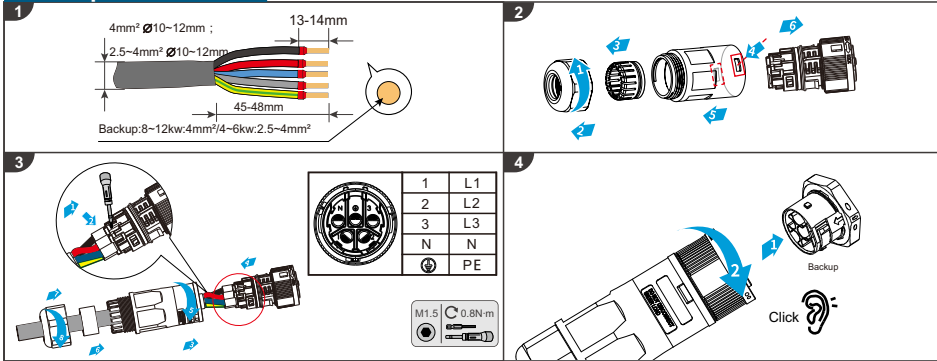
## AC Connection (Backup & Grid)



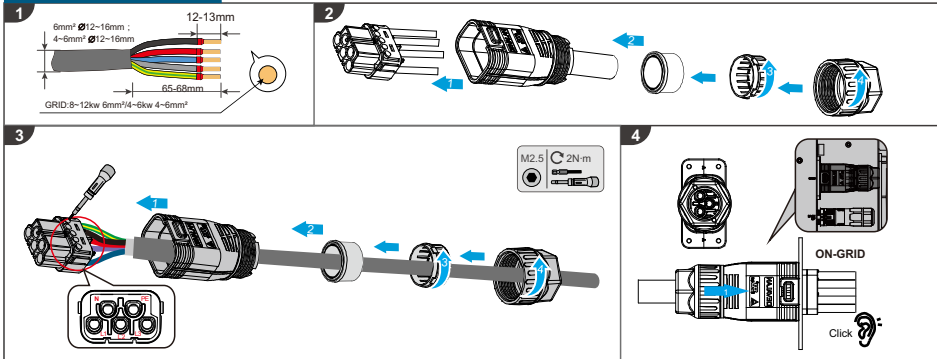
## PE Cable Connection



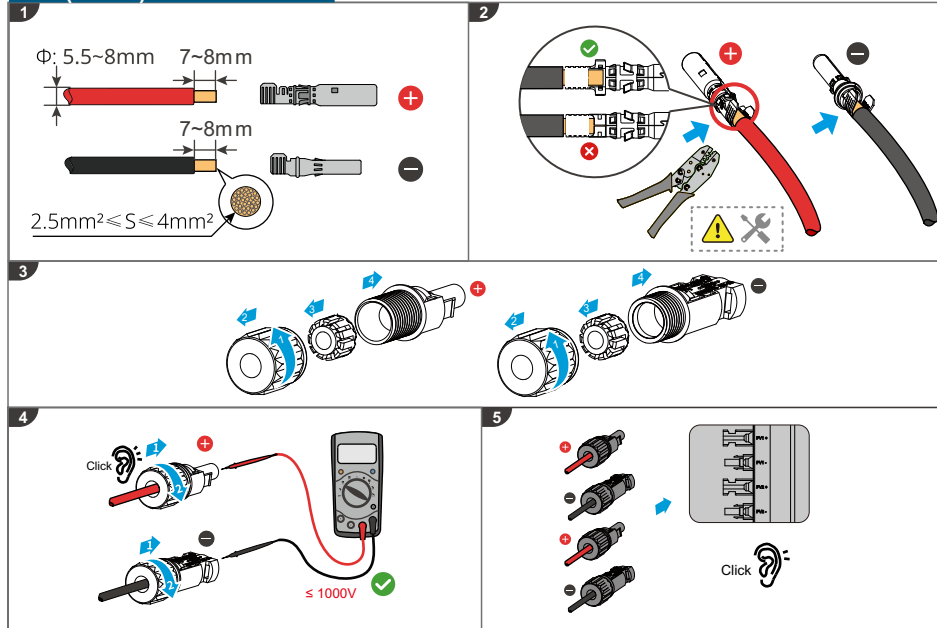
## Backup Connection



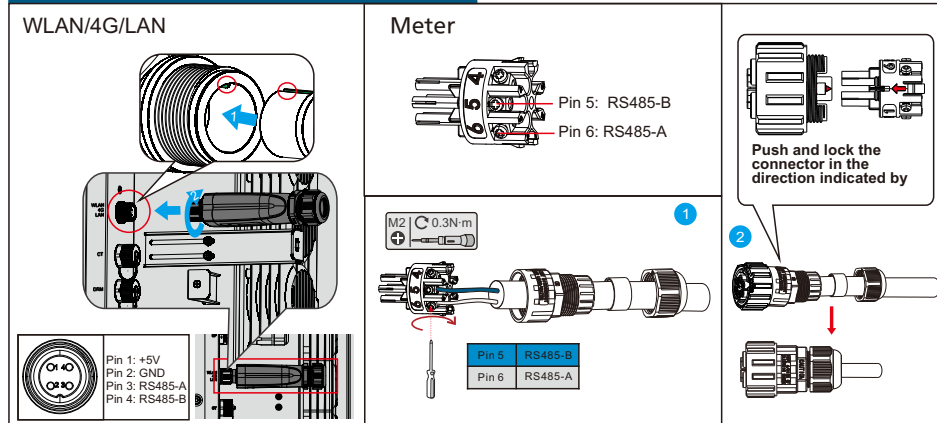
## Grid Connection



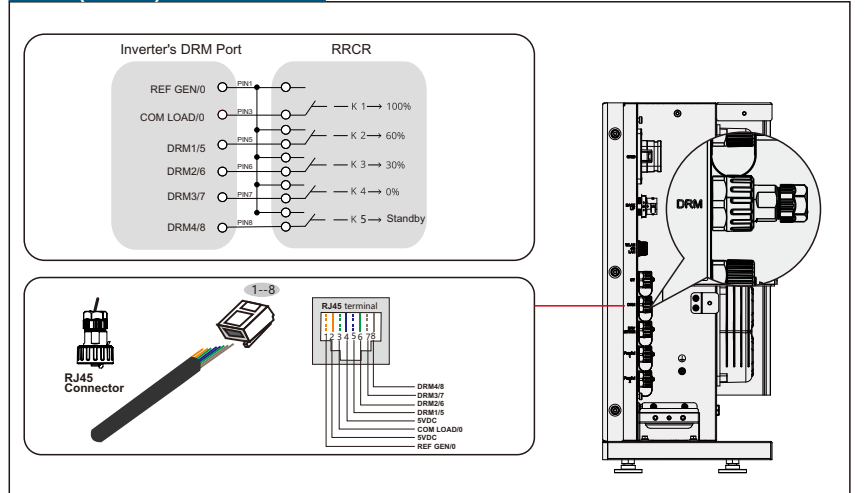
## DC (MPPT) Connection



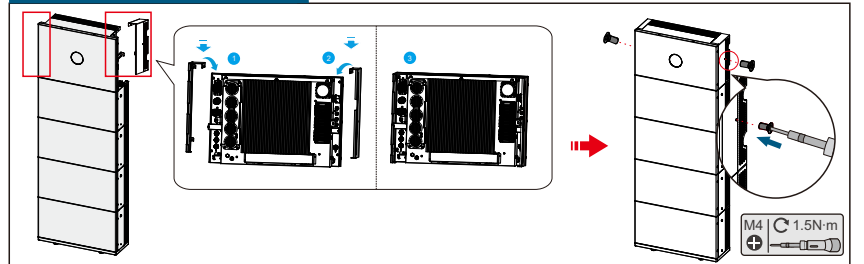
## WLAN/4G/LAN&Meter Connection



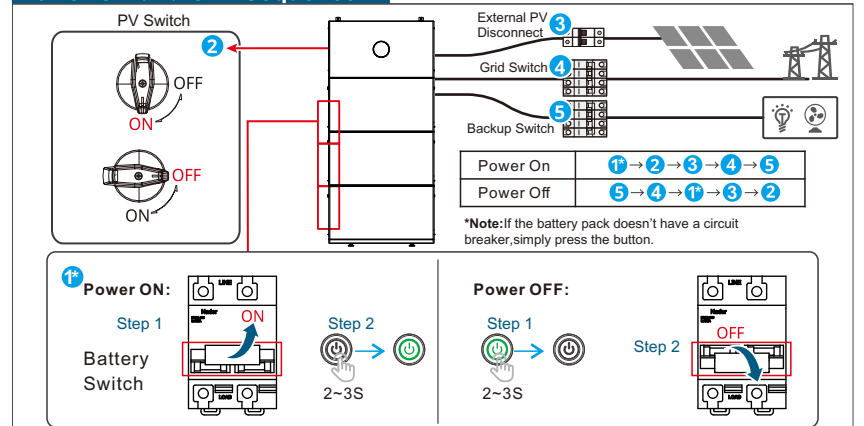
## DRM(RRCR) Connection



## Install Protective Cover



## Power ON and OFF Sequence



### LED Indicator Status



| Icons                                                                                 | Implication                                      | Color | Status                                                                                | Description                                                                        |
|---------------------------------------------------------------------------------------|--------------------------------------------------|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  | PV Indicator                                     | Green | On                                                                                    | PV operating normally                                                              |
|                                                                                       |                                                  |       | Flashing                                                                              | PV connected but not operating                                                     |
|                                                                                       |                                                  |       | Off                                                                                   | PV not connected                                                                   |
|  | Communication Indicator                          | Green | On                                                                                    | Monitoring backend connected and communication normal                              |
|                                                                                       |                                                  |       | Off                                                                                   | Monitoring module not connected or communication abnormal                          |
|  | Grid Indicator                                   | Green | On                                                                                    | System in On-grid operation mode                                                   |
|                                                                                       |                                                  |       | Flashing                                                                              | System in by pass mode                                                             |
|                                                                                       |                                                  |       | Off                                                                                   | System in initialization, standby, off-grid, fault, commissioning, or upgrade mode |
|  | OFF-Grid Indicator                               | Green | On                                                                                    | System in off-grid PV charging mode                                                |
|                                                                                       |                                                  |       | Off                                                                                   | PV off-grid charging not in progress                                               |
|  | Fault Indicator                                  | Red   | On                                                                                    | System fault                                                                       |
|                                                                                       |                                                  |       | Off                                                                                   |                                                                                    |
|  | Battery Indicator                                | Green | On                                                                                    | Battery operating normally                                                         |
|                                                                                       |                                                  |       | Flashing                                                                              | Battery abnormal (alarm or BMS communication abnormal)                             |
|                                                                                       |                                                  |       | Off                                                                                   | Battery shutdown or battery disconnected                                           |
|  | Battery SOC Indicator (Flashing during charging) | Green |  | ≥80%                                                                               |
|                                                                                       |                                                  |       |  | ≥60%                                                                               |
|                                                                                       |                                                  |       |  | ≥40%                                                                               |
|                                                                                       |                                                  |       |  | ≥20%                                                                               |
|                                                                                       |                                                  |       |  | ≥5%                                                                                |
|                                                                                       |                                                  |       |  | <5%                                                                                |