



Quick Installation Guide

Xcellent Plus-US Battery and Sol-Ark 15K-2P-N Inverter



[Product Specifications](#)



[User Manual](#)



[CEC List Checking](#)

I. Pre-Installation Preparation

Safety Warnings

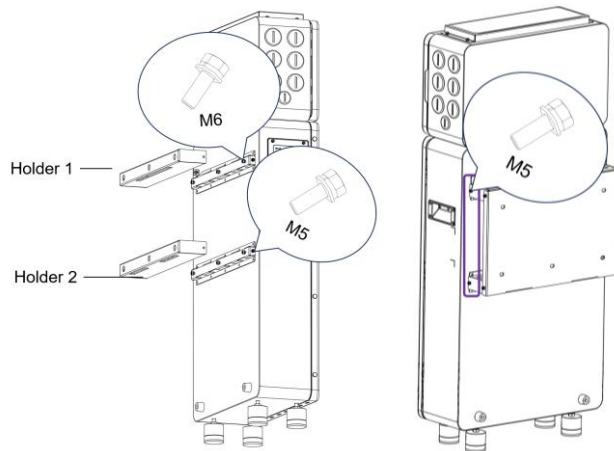
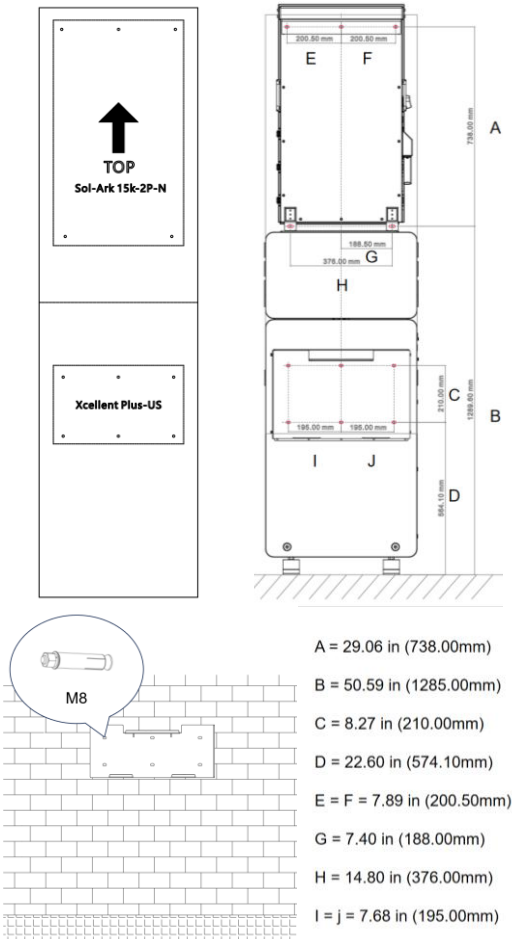
- **Installation must be performed by qualified personnel.** Read all relevant manuals before starting.
- **Ensure power is OFF** before installation. Disconnect batteries, PV modules, and AC power.
- **Avoid battery short circuits.** Verify polarity when connecting batteries.
- **Comply with local electrical codes** for safe and legal installation.

Required Tools & Equipment

- Xcellent Plus-US System
- Sol-Ark 15K-2P-N Inverter
- Power Cable: 2/0 AWG, 2*Positive, 2*Negative
- Screwdrivers, Wrenches, Spirit Level, Dolly, and other tools

II. Installation Steps

STEP 1: Installing the Xcellent Plus-US Battery



1. Prepare the Installation



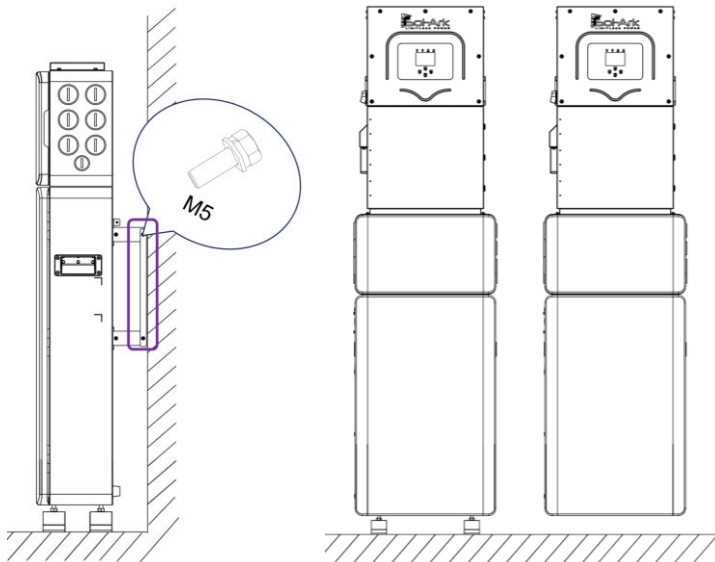
Ensure the following conditions before installation:

- **Choose a suitable location:** Ensure good ventilation and avoid direct sunlight or high-temperature environments.
- **Pre-drill the holes:** The positioning cardboard is used to assist installation, and perform precise measurements according to the dimension drawing.
- Secure the mounting panel and install leveling feet before battery installation.

2. Installation Method

- Wall-mounted installation
- Floor installation

Note: The leveling feet are not required for wall-mounted installation.



3. Battery Installation

- Attach holder 1 and holder 2.
- **Note:** When installing the holder, only the inner screws need to be mounted.
- **Mounting panel:** Install the battery to the mounting panel and secure the external screws.

4. Junction Box

- Remove the junction box cover to access inverter connection.

5. Inverter Installation

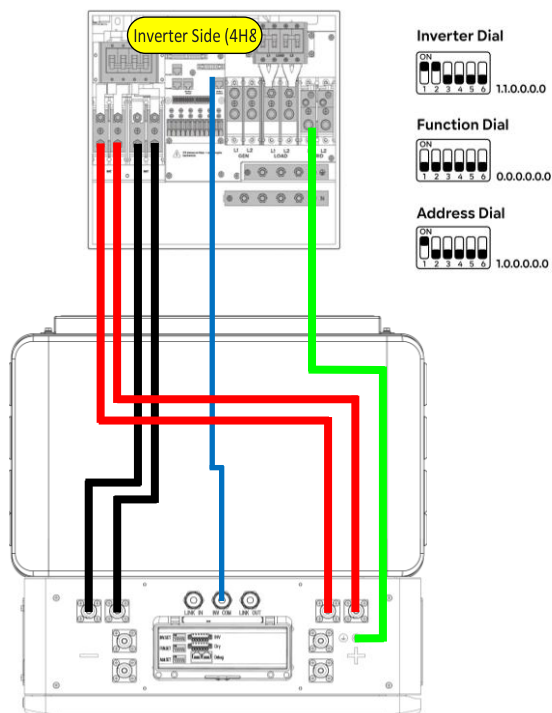
- Mount the inverter directly to the pre-drilled holes to ensure a secure installation.

6. Check

- If any mounting hole misalignment exists, by adjusting the leveling feet to complete the accurate installation.
- **Note:** The leveling feet can support the battery and be adjusted upward by 0.2 inch (5mm).
- **Check and tighten all screws** to ensure a stable and secure installation.

STEP 2: Connect with the Sol-Ark Inverter (Single Stack)

Positive power cable Communication cable Ground cable Negative power cable



1. Power Cable Connection

- Ensure the Sol-Ark inverter and battery breaker are OFF before making any connections.
- **Positive (+) terminal & Negative (-) terminal:** Terminal type: **2/0 AWG**
- Ensure all terminals are securely tightened and properly insulated to prevent short circuits.

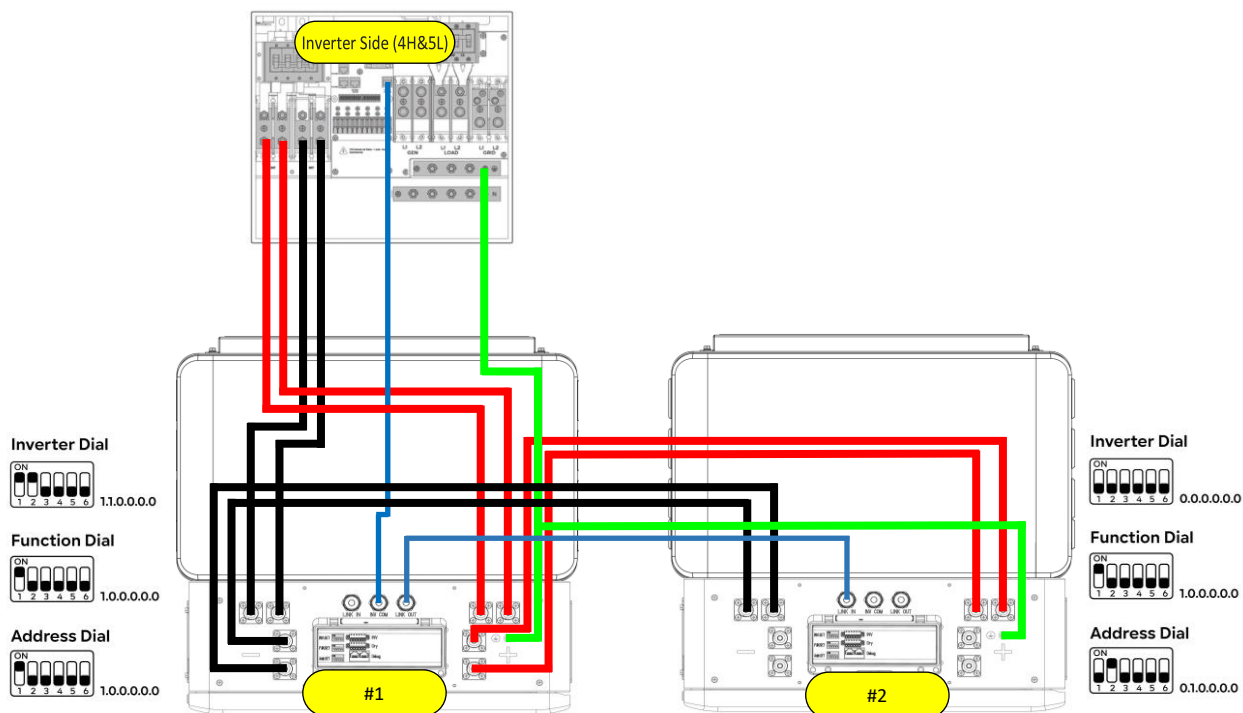
2. Communication Cable Connection & DIP Switch Setting

- Use **RJ45 communication cables** to connect the battery's **INV COM port** to the Sol-Ark inverter's Battery CANBus (BMS) port.
- Verify communication status on the **Sol-Ark LCD screen** after powering on the system.

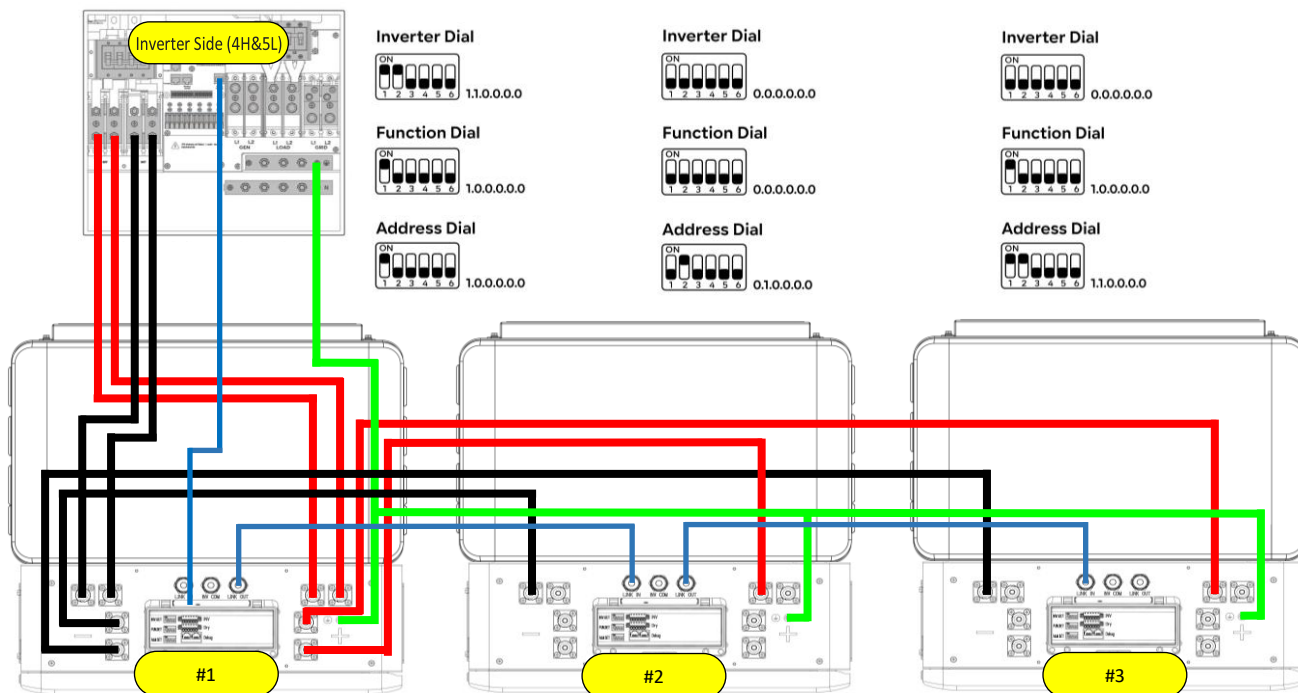
Two batteries in parallel

Power Cable Connection

- Please note that the parallel needs to connect the **LINK OUT** of the #1 to the **LINK IN** of the #2.
- **Note:** Two batteries in parallel require two power cables for electrical connection.



Multiple batteries in parallel



1. Dial code

- **Address:** The address dial switch is sequentially increased.
- **Inverter:** Set the inverter dial switch according to the actual usage.
- **Function:** Set the first battery and the last battery of the system's function dial code as code 1 and set function dial code of the rest of batteries as code 0.

2. Parallel Cable Connection

- Please note that the parallel needs to connect LINK OUT of the #1 to LINK IN of the #2, and the connect LINK OUT of the #2 to LINK In of the #3.

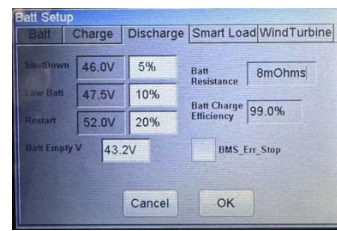
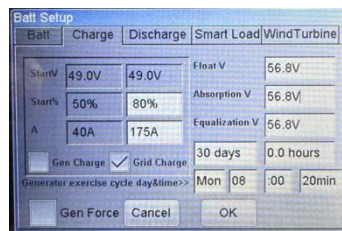
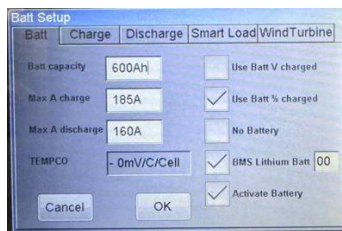


STEP 3: System Power-Up & Configuration

1. Configure Inverter Battery Settings

Close the DC breaker on the Sol-Ark inverter, then press the power button on the Xcellent Plus-US main control module to activate the system.

- **Set Battery Capacity:**
 - Formula: Battery Capacity (Ah) = Battery count × 314Ah
- **Enable Battery Communication:**
 - Check ☒ "Use Batt % charged"
 - Check ☒ "BMS Lithium Batt"
 - Set BMS Lithium Batt to "00" (this ensures proper CANBus communication with the Xcellent Plus-US battery)
 - Check ☒ "Activate Battery"
- **Verify Communication:**
 - Ensure the **RJ45 CANBus communication cable** is securely connected between the battery and inverter.
 - Confirm the **battery dial switch** is set to position **1.1.0.0.0.0** (Sol-Ark mode).
 - Check the **LCD screen** on Sol-Ark to verify that the battery SOC (State of Charge) is displayed correctly.



2. Battery Network Connection & Remote Monitoring

For remote monitoring and system management, follow these steps:

- **Install and Register on Renon Smart App**
 - Download the **Renon Smart** app from **Google Play Store** or **Apple App Store**.
 - Open the app, select your country, and **create an account**.
- **Bind the Battery to the App**
 - Please scan Renon Smart Connection Guide QR code for details.
- **Configure Battery Wi-Fi Connection**



[Renon Smart Connection Guide](#)



[IOS APP](#)



[Android APP](#)

III. Conclusion

Following this quick guide ensures proper installation of the Xcellent Plus-US battery and Sol-Ark 15K-2P-N inverter for **efficient and stable system operation**. For further technical support, contact the official support team.

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