



# Quick Installation Guide

Xtreme LV Battery and Sol-Ark 15K-2P-N Inverter



[Installation video](#)



[Product Specifications](#)



[User Manual](#)



[CEC List Checking](#)



[UL 9540](#)

## I. Pre-Installation Preparation

### Safety Warnings

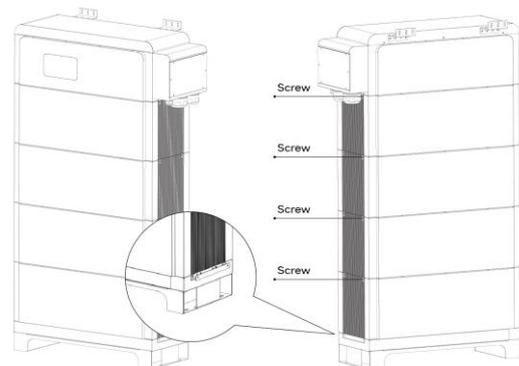
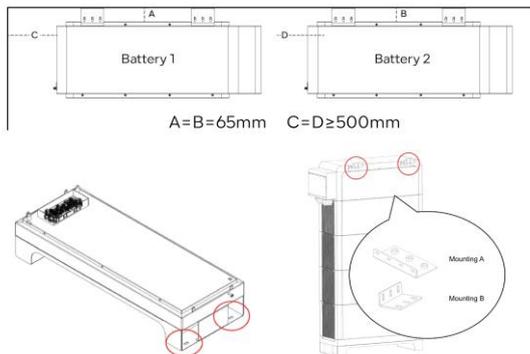
- **Installation must be performed by qualified personnel.** Read all relevant manuals before starting.
- **Ensure power is OFF** before installation. Disconnect batteries, PV modules, and AC power.
- **Avoid battery short circuits.** Verify polarity when connecting batteries.
- **Comply with local electrical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

### Required Tools & Equipment

- Xtreme LV System
- Sol-Ark 15K-2P-N Inverter
- Power Cable: AWG 2/0 size, 2\*Positive, 2\*Negative
- Screwdrivers, Wrenches, Multimeter, and other electrical tools

## II. Installation Steps

### STEP 1: Installing the Xtreme LV 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.
- **Secure the battery base:** Fix the base to prevent movement.
- **Pre-install Mounting A and Mounting B** on the back of the main control unit.

#### 2. Stack and Secure the Battery Modules

🔧 Follow these steps for proper stacking and stability:

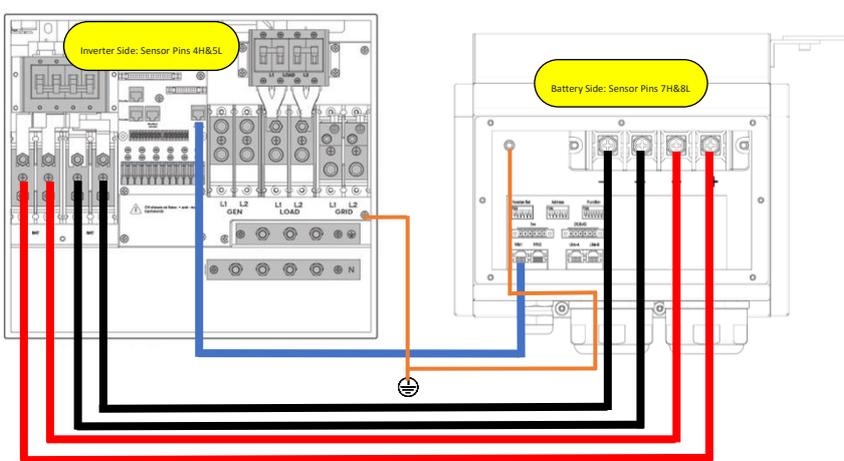
- **Stack the battery modules one by one** on the secured base.
- **Lock the side panels on both sides** to secure the structure.
- **Wall mounting:** Align with Mounting B on the back of the main control unit, mark the wall, drill holes, and secure the mounting brackets.
- **Check and tighten all screws** to ensure a stable and secure installation.





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

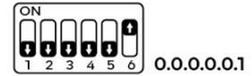
- Positive power cable
- Communication cable
- Ground cable
- Negative power cable
- Parallel communication cable



### Inverter Dial



### Function Dial



### Address Dial



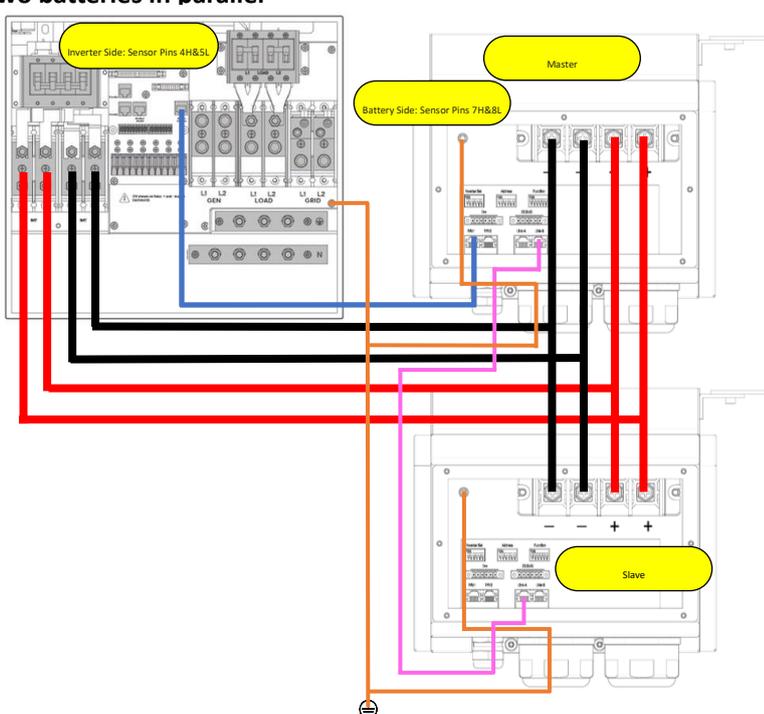
### 1. Power Cable Connection

- Ensure the Sol-Ark inverter and battery breaker are OFF before making any connections.
- Positive (+) terminal & Negative (-) terminal:  
Terminal type: **2/0 AWG**  
Torsion: **10N.m**
- 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 **INV1** 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

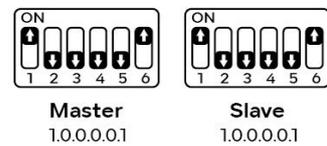


### Inverter Dial



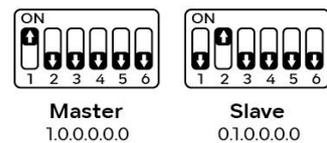
### Function Dial

Two Xtreme LV:



### Address Dial

Two Xtreme LV:

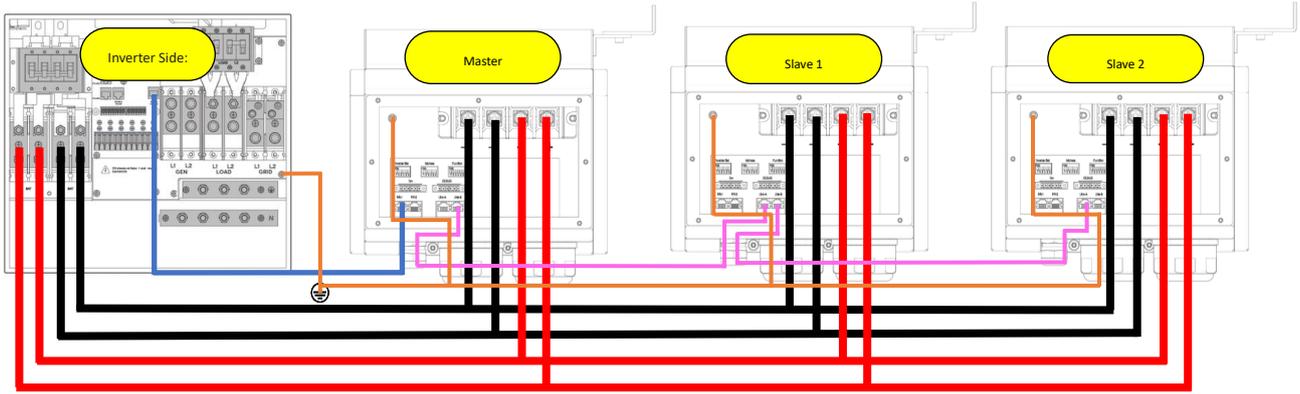


### Power Cable Connection

- Ensure the Sol-Ark inverter and battery breaker are OFF before making any connections.
- Please note that the parallel needs to connect the Link-B of the master to the Link-A of the slave.



## Multiple batteries in parallel



### Inverter Dial



### Function Dial

Three Xtreme LV:



### Address Dial

Three Xtreme LV:



### 1. Example Precautions

- This example is three batteries in parallel.
- Maximum number of batteries parallel: **15**
- **Address:** The address dial switch is sequentially increased.
- **Inverter:** Please 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 33 and set function dial code of the rest of batteries as code 32.

### 2. Parallel Cable Connection

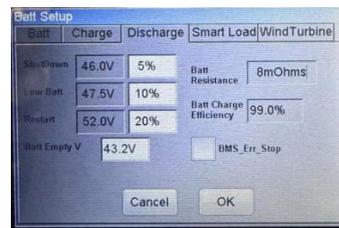
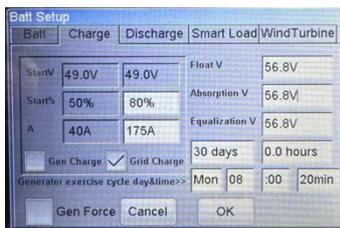
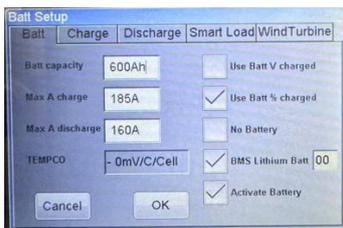
- Please note that the parallel needs to connect Link B of master to Link A of slave 1, and then connect Link B of slave 1 to Link A of slave 2, and so on.

## 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 Xtreme LV main control module to activate the system.

- **Set Battery Capacity:**
  - Formula: Battery Capacity (Ah) = Number of Battery Modules × 100Ah
  - Example for a 30kWh Xtreme LV system (6 modules): 600Ah
- **Enable Battery Communication:**
  - Check  "Use Batt % charged"
  - Check  "BMS Lithium Batt"
  - Set BMS Lithium Batt to "00" (this ensures proper CANBus communication with the Xtreme LV 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 Xtreme LV battery and Sol-Ark 15K-2P-N inverter for **efficient and stable system operation**. For further technical support, contact the official support team.

 **Renon Power Support:** +1 (833) 736-6687

 **Email:** [Support@renon-usa.com](mailto:Support@renon-usa.com)

