



Quick Installation Guide

V1.0 VERSION

Xcellent Plus-US Battery, Solis S6-EH2P16K03-SV-YD-L-US Inverter

[Product Specifications](#)[User Manual](#)[CEC List Checking](#)

I. Pre-Installation Preparation

Safety Warnings

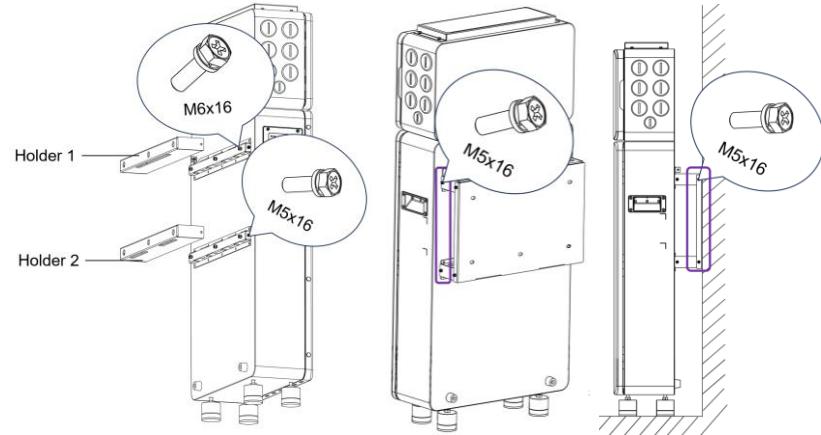
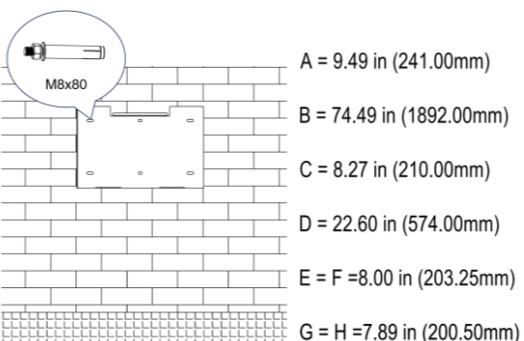
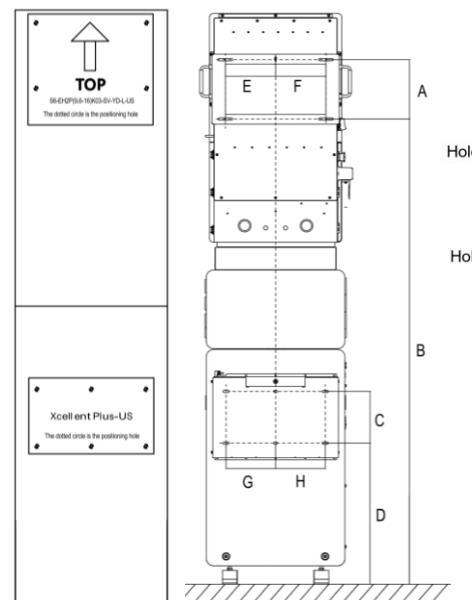
- Installation must be performed by qualified personnel. Read all relevant manuals before starting.
- Ensure power is OFF before installation. Disconnect batteries, PV modules, and AC power.
- Avoid battery short circuits. Verify polarity when connecting batteries.
- Comply with local electrical codes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

Required Tools & Equipment

- Xcellent Plus-US System
- Solis S6-EH2P16K03-SV-YD-L-US 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

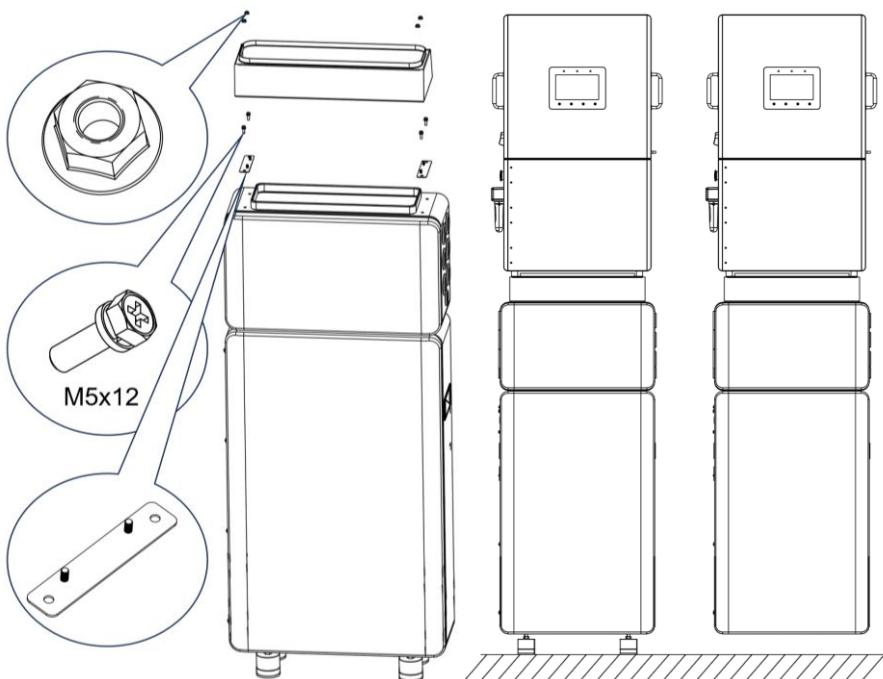
Note: The leveling feet are not required for wall-mounted installation.



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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.
- After installing the adapter bracket on both sides, install the adapter box above the junction box.

5. Inverter Installation

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

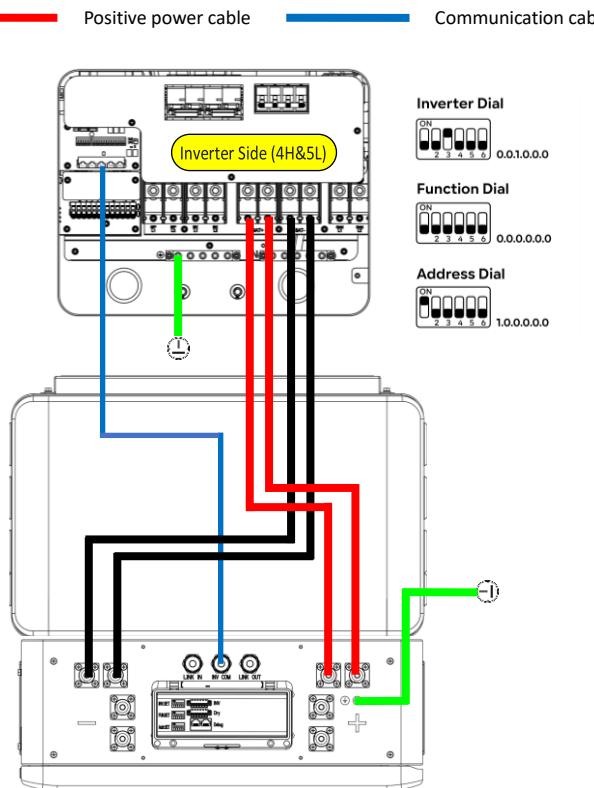
6. Check

- 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 Solis Inverter (Single Stack)



— Positive power cable
 — Communication cable
 — Ground cable
 — Negative power cable
— Inverter parallel communication cable

1. Power Cable Connection

- Ensure the Solis 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 Solis inverter's Battery CANbus (BMS) port.
- Verify communication status on the **Solis LCD screen** after powering on the system.

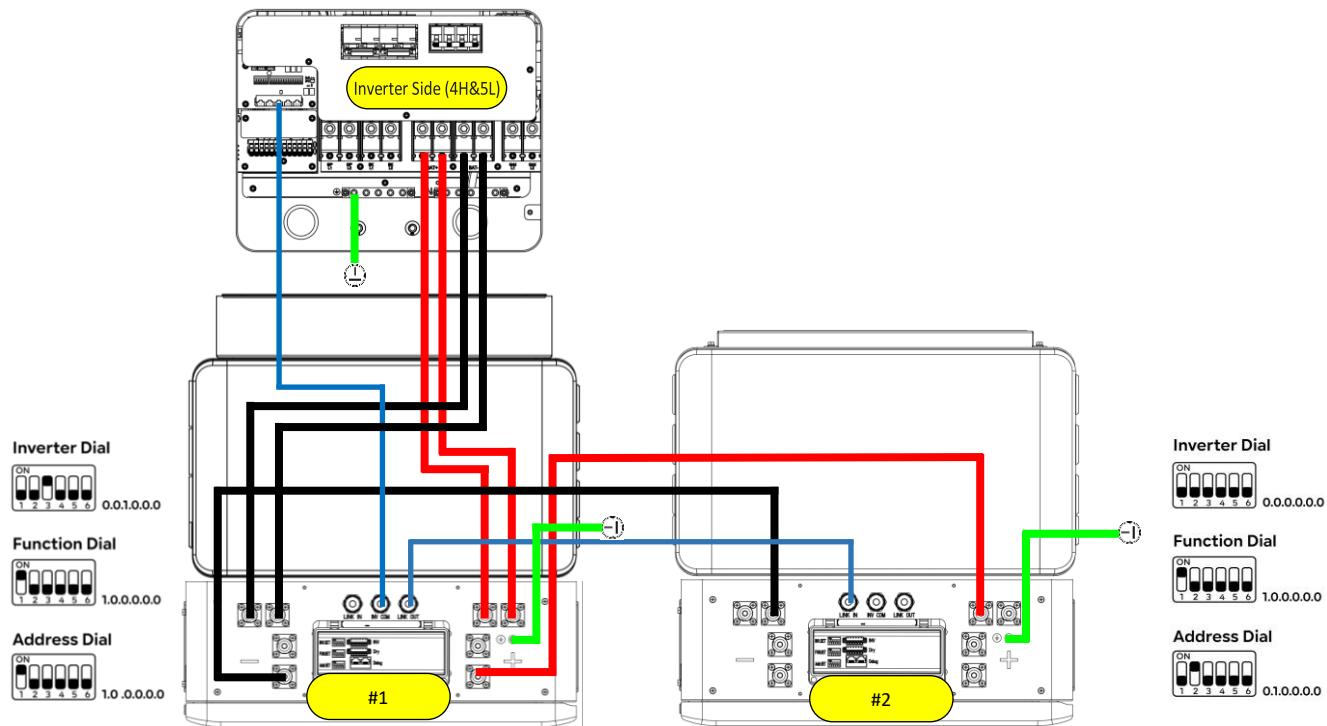


Two batteries in parallel

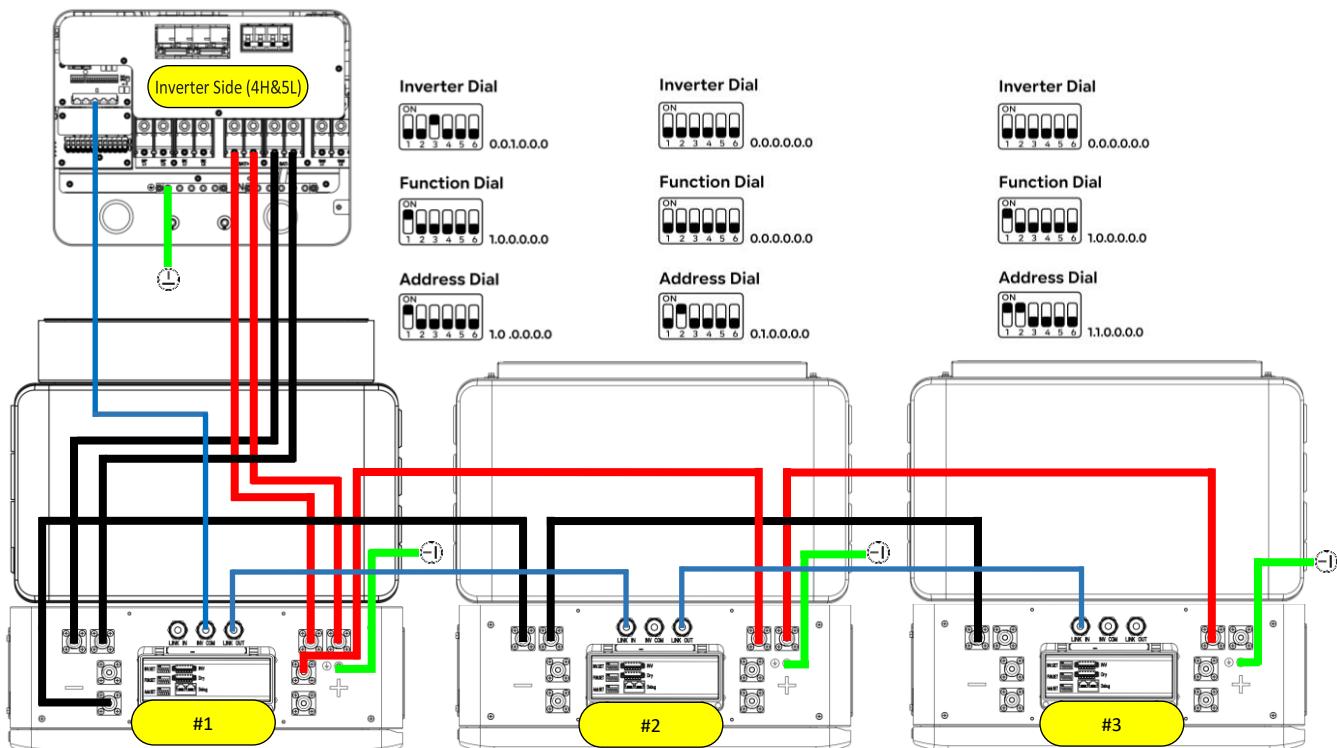
Power Cable Connection

- 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.

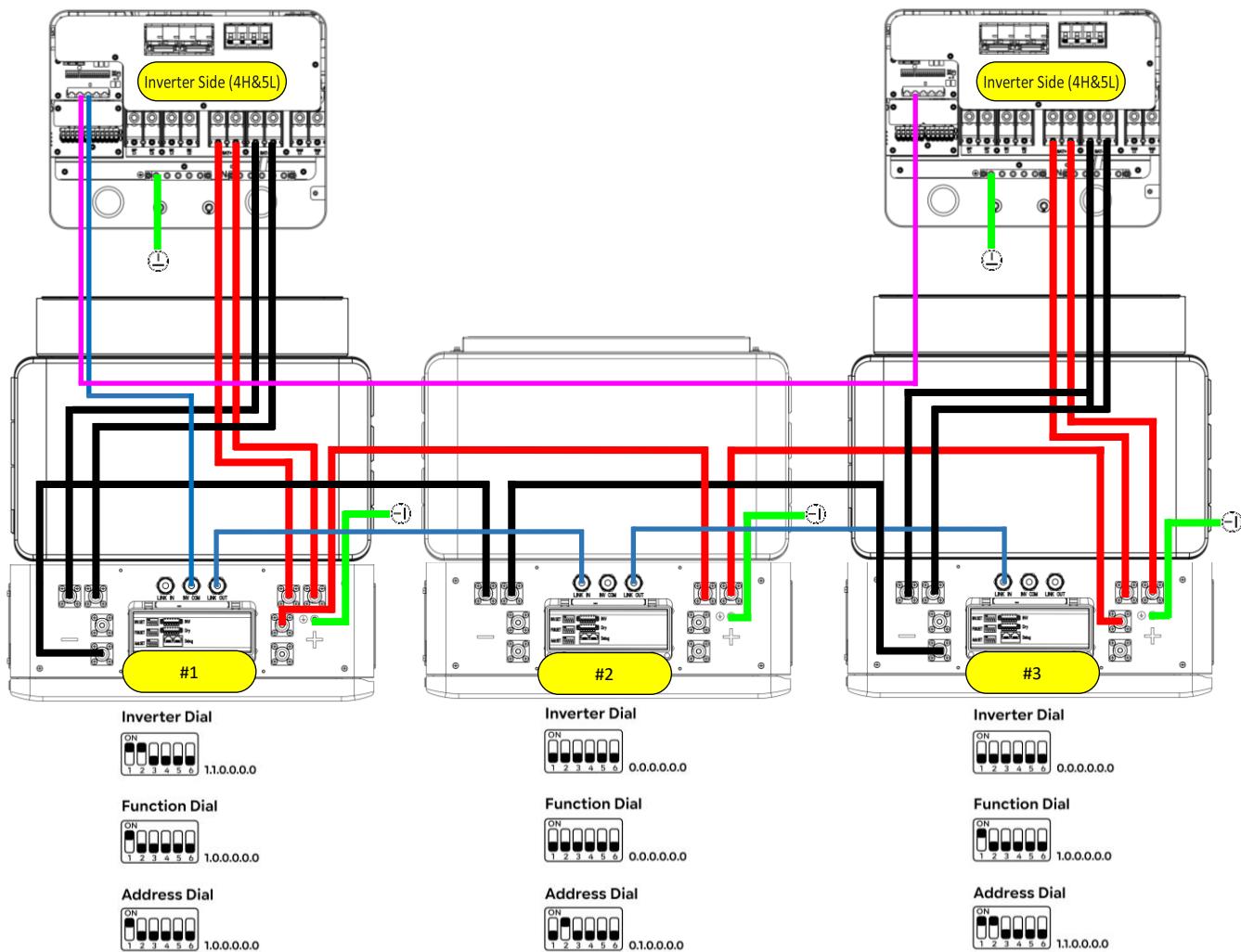


Multiple batteries in parallel





Multiple batteries in parallel (Two inverters)



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.
- The parallel communication line of the main inverter is connected to the slave inverter.

STEP 3: System Power-Up & Configuration

1. Configure Inverter Battery Settings

Turn on the Solis inverter DC switch, then press the power button on the Xcellent Plus-US main control module to activate the system.

• Verify Communication:

- Ensure the RJ45 CANBus communication cable is securely connected between the battery and inverter.
- The system will begin to generate PV power after about five minutes provided there are no persistent alarms.
- Inverter LCD screen provide an overview of the system behavior.
- It can quickly be determined if the battery is properly communicating or not and what the SOC is.





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 Solis S6-EH2P16K03-SV-YD-L-US inverter for **efficient and stable system operation**. For further technical support, contact the official support team.

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