

Inverter Quick Installation Guide

This installation guide applies to AS1-3KS-5.1 AC Retrofit Battery System

1. Requirements for the mounting position

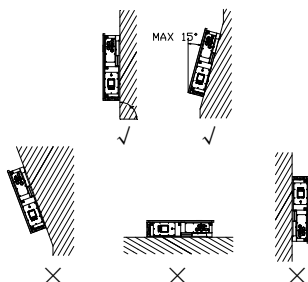


Figure 1.1: Permitted and prohibited mounting method

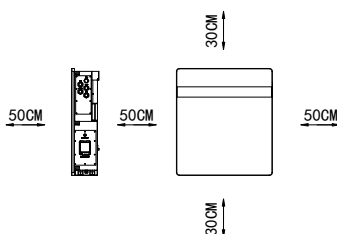


Figure 1.2: Minimum clearance

2. Mark the load-bearing point

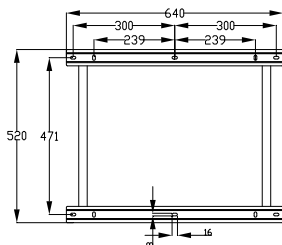


Figure 2.1: AS1-3KS-5.1 wall mounting bracket dimensions (master device)

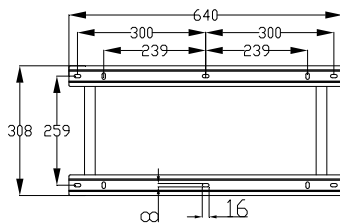


Figure 2.2: B1-5.1-4.8 wall mounting bracket dimensions (slave device)

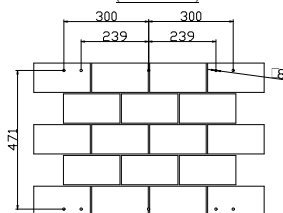


Figure 2.3: Drilling position of the Load-bearing point (master device)

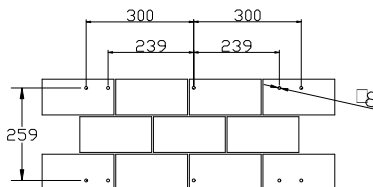


Figure 2.4: Drilling position of the Load-bearing point (slave device)

3. Mounting inverter

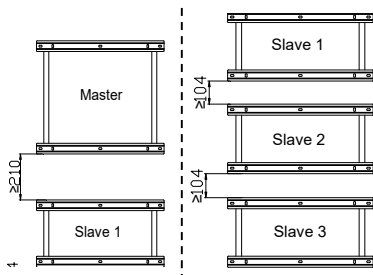


Figure 3.1: Position interval between master and slave

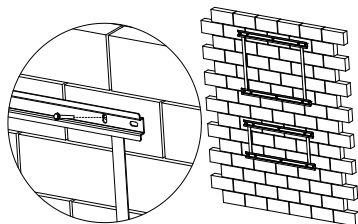


Figure 3.2: Install the wall mounting bracket

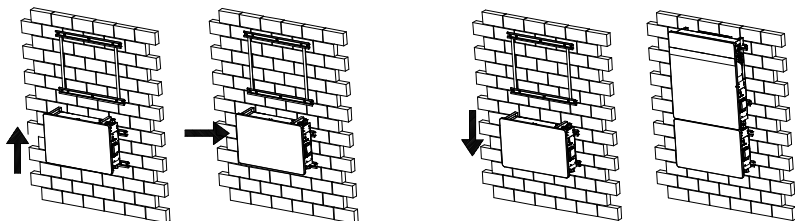


Figure 3.3: Install the AS1-3KS-5.1 on wall mounting bracket

4. Electrical Connection

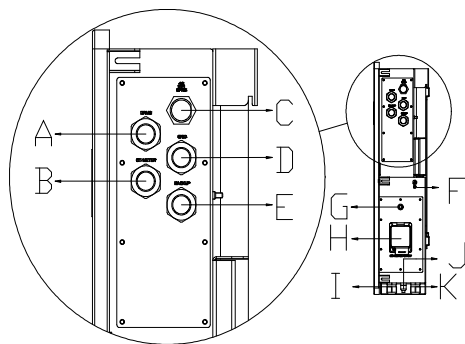


Figure 4.1: Electrical interface description

Code	Name
A	DRMS Port
B	CT/Meter connection
C	RS232 communication
D	Grid connection
E	Backup connection
F	Ground
G	BMS switches
H	Battery switches
I	BAT+
J	BMS LINK
K	BAT-

Table 1: Interface definition description

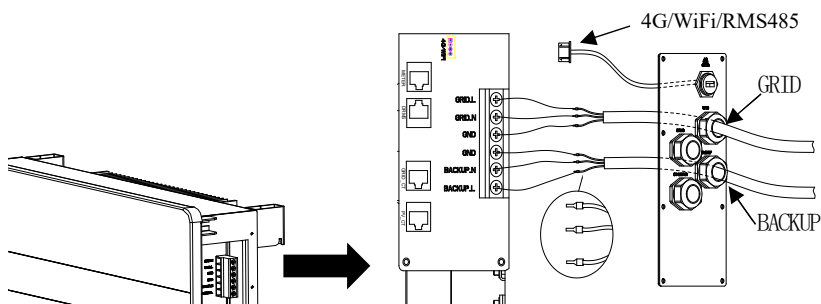


Figure 4.2: Master device wiring terminals

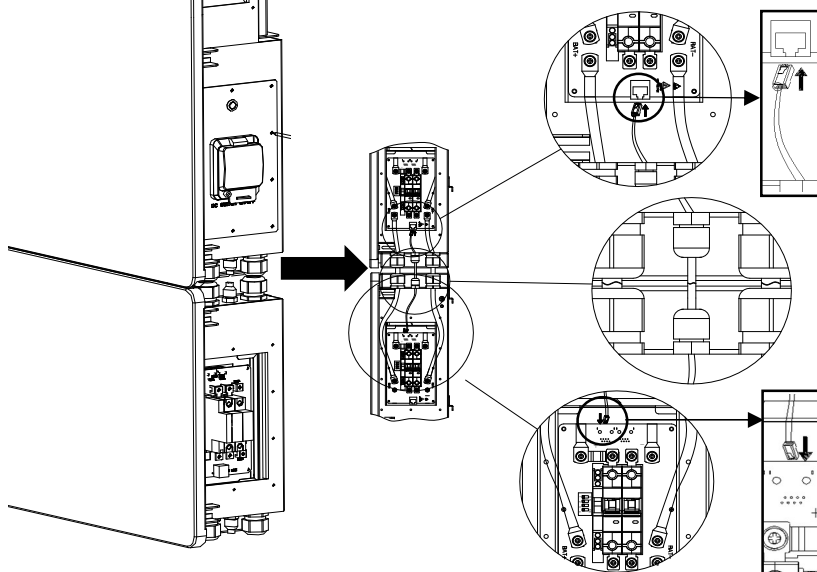


Figure 4.3: AS1retrofit battery system

Figure 4.4: Slave device wiring terminals

5. Opening-closing current transformer (CT) installation

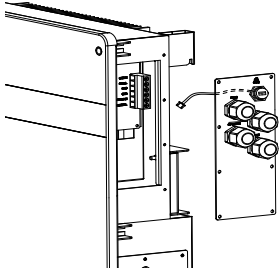


Figure 5.1: Open the waterproof cover

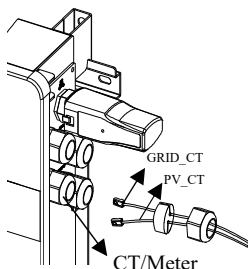


Figure 5.2: Connect the cable to the CT/Meter wire hole

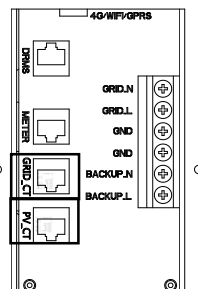


Figure 5.3: Connect the cable to the corresponding terminal

6. Meter installation

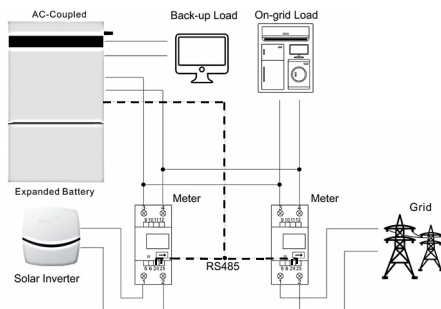


Figure 6.1: Single phase meter wiring diagram

The RS485 port	
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	RS485-A+
8	RS485-B-

Table 2: RS485 pin port definition



Figure 6.2: Description of the meter terminal

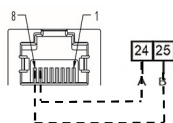


Figure 6.3: Connect the 7-8 terminals of RS485 to the 24-25 terminals of meter

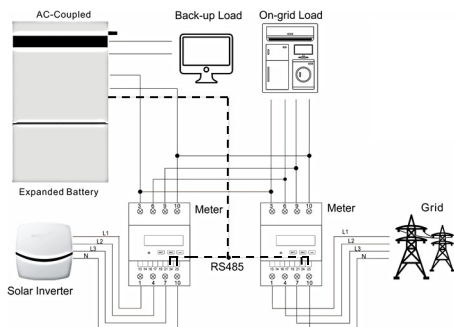


Figure 6.4: Three phase meter wiring diagram

The RS485 port	
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC
7	RS485-A+
8	RS485-B-

Table 3: RS485 pin port definition

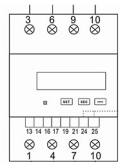


Figure 6.5: Description of the meter terminal

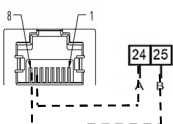
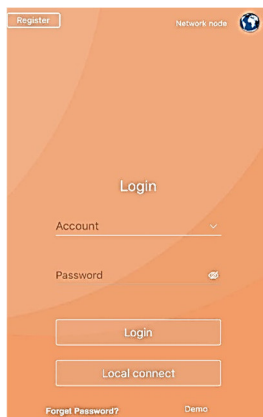


Figure 6.6: Connect the 7-8 terminals of RS485 to the 24-25 terminals of meter

7. Initial setup

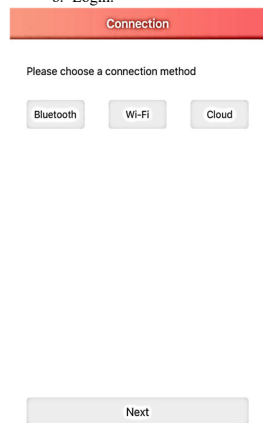
Step 1: Download eSolar O&M APP.

- For the iOS system, search “eSolar O&M” in App Store to download.
- For the Android system, search “eSolar O&M” in Google Play to download.



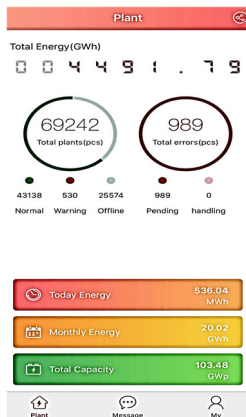
Step 2: Open the software.

- Enter your account and password.
- Login.



Step 5: Select connection methods.

- Choose one of the connection methods.



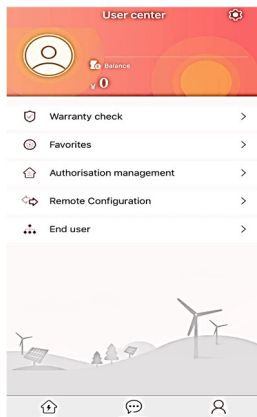
Step 3: Enter the user center.

- Tap the “MY” icon in the lower right corner of the main interface.



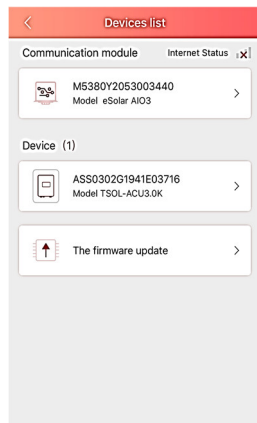
Step 6: Pair with the equipment

- Select the correct model of the module to connect.



Step 4: Connect the devices.

- Tap “Remote Configuration.”



Step 7: Equipment selection

- Tap “AS×××××” series device.

< Grid compliance settings

Country
Australia

Grid code
Australia(AS 4777)

Inverter time
2021-04-29 10:58 Auto timing

Next

Step 8: Initial setup

a. Set local grid compliance and time as per the local regulations.

< Working Modes

Self-Consumption Mode: Power generated by PV will be supplied firstly to the load, secondly to the battery and the remaining power will be exported to Grid

Time-of-use Mode: Set battery charge/discharge hours manually.

< Working Modes

Back-up Mode: Battery will be fully charged and will not discharge until there is a blackout

Previous Next

Step 9: Working modes selection

a. Tap the area marked by the black box to select the operational mode.

< Device Testing

Device options

CT

Single three-phase meter

Two three-phase meters

Two single-phase meter

Step 10: Measuring device

a. Select one of the monitoring equipment to connect.

< device info

Bluetooth connection:BlueLink:03440

ASS0302G1941E03716 Running status

Basic info Running info Event info

On-grid inverter			
L1	0.0V	0.00A	0W
L2	0.0V	0.00A	0W
L3	0.0V	0.00A	0W

Battery		
Battery1	52.9V	-0.80A

Discharging

Otime

Step 11: Device information

a. View the device information on this interface and tap the icon marked with the black box in the upper right corner.

Local connect

Bluetooth connection:BlueLink:03440

ASS0302G1941E03716

- device info
- Maintenance
- Grid compliance settings
- Battery
- Protection data
- Feature data
- Power adjustment
- Mode setting
- DRM Setting
- Measuring device
- V-Watt/V-Var

Step 12: Complete the setup

a. Complete the parameter setting and enter the device configuration interface.

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