Inverter Quick Installation Guide

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

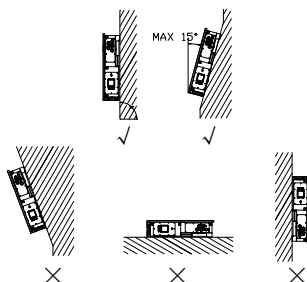## 1. Requirements for the mounting position

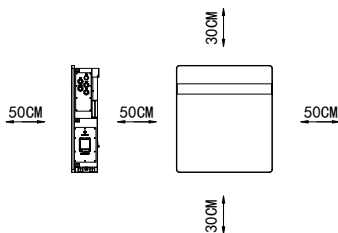Figure 1.1: Permitted and prohibited mounting method

Figure 1.2: Minimum clearance
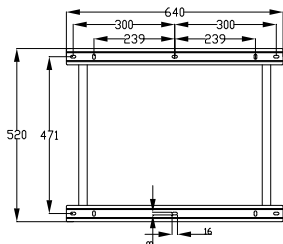
2. Mark the load-bearing point

Figure 2.1: AS1- 3KS-5.1 wall mounting bracket dimensions (master device)
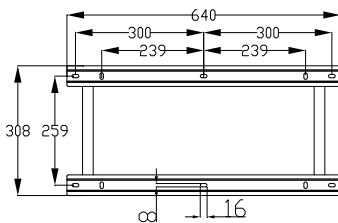
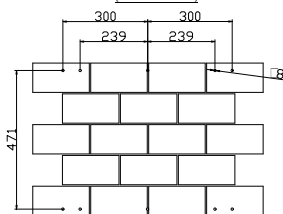Figure 2.2: B1-5.1-4.8 wall mounting bracket dimensions (slave device)

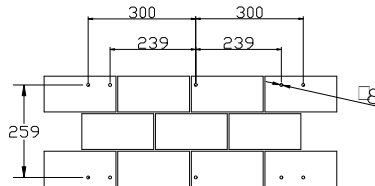Figure 2.3: Drilling position of the Load-bearing point (master device)

Figure 2.4: Drilling position of the Load-bearing point ((slave device)
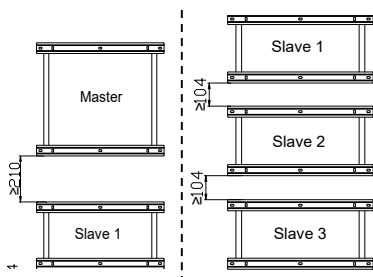
3. Mounting inverter

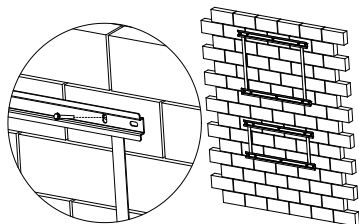Figure 3.1: Position interval between master and slave
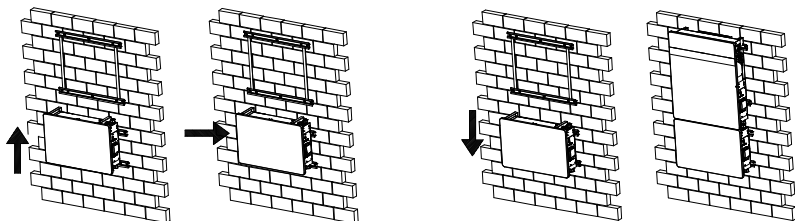

Figure 3.2: Install the wall mounting bracket

Figure 3.3: Install the AS1- 3KS-5.1 on wall mounting bracket
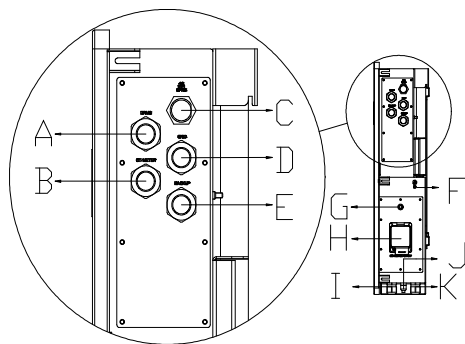
4. Electrical Connection

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-

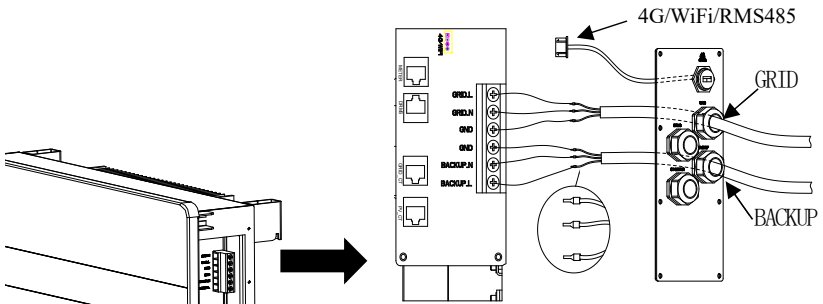Table 1: Interface definition description

4G/WiFi/RMS485
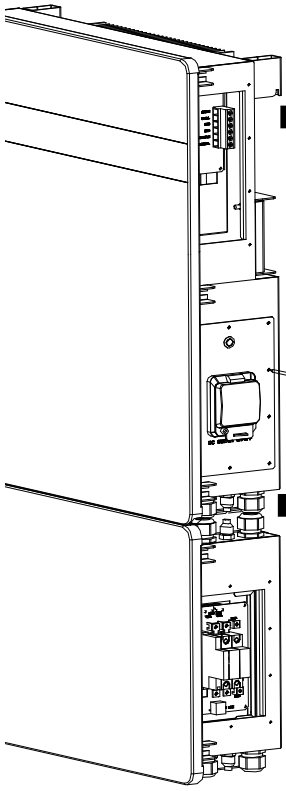
GRID

BACKUP

Figure 4.2: Master device wiring terminals

Figure 4.3: AS1retrofit battery system
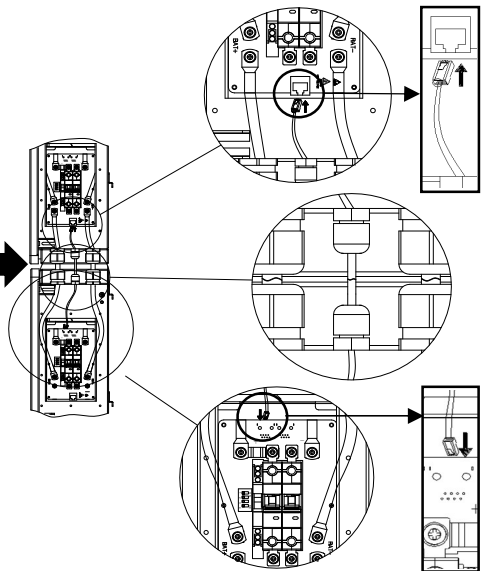
Figure 4.4: Slave device wiring terminals

5. Opening-closing current transformer (CT) installation

GRID_CT

PV_CT

CT/Meter

4G/WIFI/GPRS

GRID.N
GRID.L
GND
GND
BACKUP.N
BACKUP.L

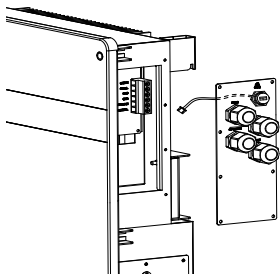DRMS
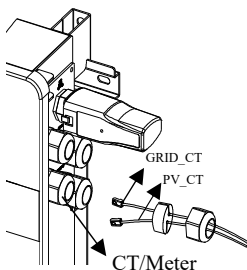
METER

GRID_CT

PV_CT

Figure 5.1: Open the waterproof cover

Figure 5.2: Connect the cable to the CT/Meter wire hole
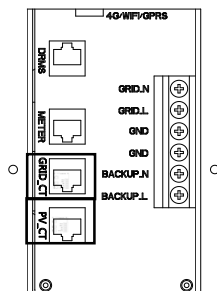
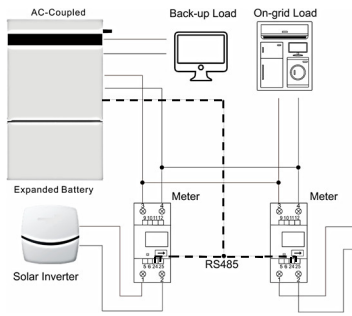Figure 5.3: Connect the cable to the corresponding terminal

6. Meter installation

AC-Coupled Back-up Load On-grid Load

Expanded Battery

Solar Inverter

Meter Meter Grid

RS485

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

8 1

Table 2: RS485 pin port definition

9 10 11 12

5 6 24 25

3 4

8 1

24 25

A B

Figure 6.1: Single phase meter wiring diagram

Figure 6.2: Description of the meter terminal
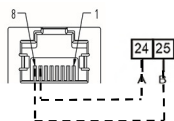
Figure 6.3: Connect the 7~8 terminals of RS485 to the 24~25 terminals of meter

AC-Coupled Back-up Load On-grid Load

Expanded Battery

Solar Inverter

Meter Meter Grid

RS485

L1 L2 L3 N

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

8 1

Table 3: RS485 pin port definition

3 6 9 10

13 14 16 17 19 21 24 25
1 4 7 10

8 1

24 25

A B
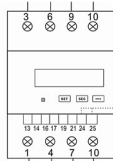
Figure 6.4: Three phase meter wiring diagram

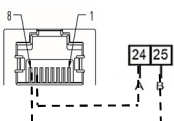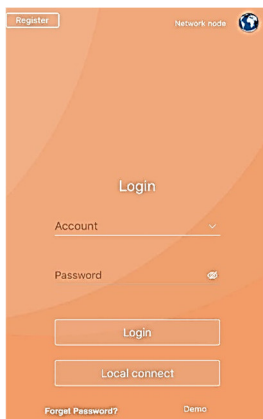Figure 6.5: Description of the meter terminal

Figure 6.6: Connect the 7~8 terminals of RS485 to the 24~25 terminals of meter
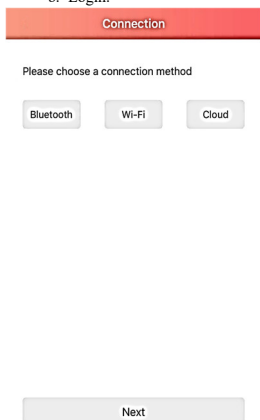
7. Initial setup

Step 1：Download eSolar O&M APP.
    a. For the iOS system, search "eSolar O&M" in App Store to download.
    b. For the Android system, search "eSolar O&M" in Google Play to download.
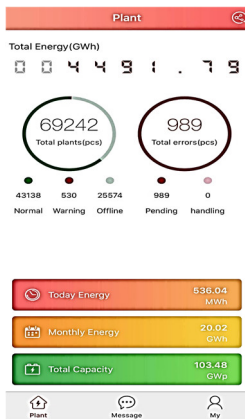
Step 2: Open the software.
    a. Enter your account and password.
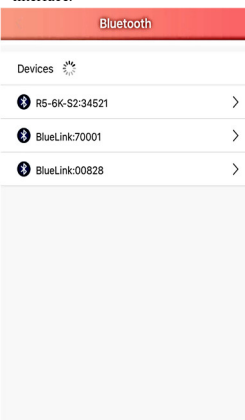   b. Login.

Step 3: Enter the user center.
    a. Tap the "MY" icon in the lower right corner of the main interface.

Step 4: Connect the devices.
    a. Tap "Remote Configuration."

Step 5: Select connection methods.
    a. Choose one of the connection methods.

Step 6: Pair with the equipment
    a. Select the correct model of the module to connect.
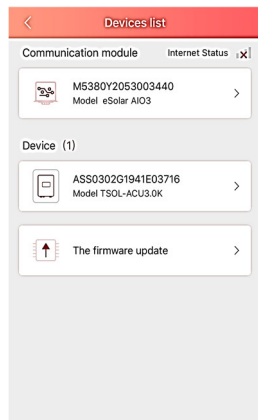
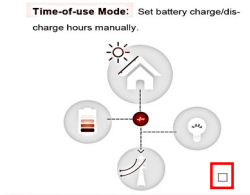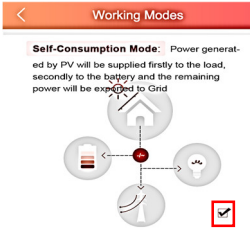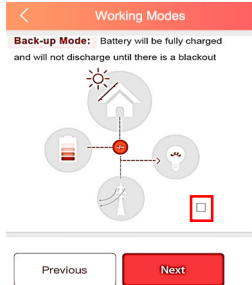**Step 7:** Equipment selection
    a. Tap "AS×××××" series device.
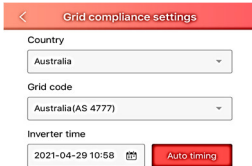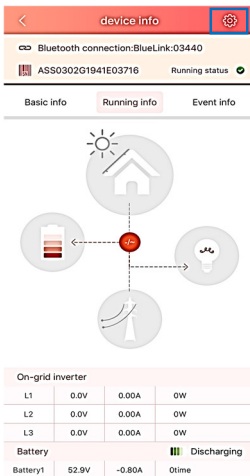
Step 8: Initial setup

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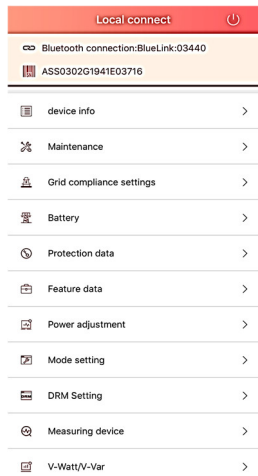

Step 9: Working modes selection

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

Step 10: Measuring device

a. Select one of the monitoring equipment to connect.

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.

Step 12: Complete the setup

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

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