

材质：封面-铜版纸100 g 内页-双胶纸100 g

尺寸：装订A5 148\*210 mm\*(14+2)P

颜色：彩色

装订：骑马钉

# **AI Link**

## **AL 1000**

### **Quick Installation Guide**

Issue: 1.0

Date: 2024-11-20

## Notice

1. The information in this document may not be modified, copied or reproduced. All information in this document is provided to the best of our knowledge and efforts, but does not constitute a warranty of any kind, express or implied. You can download quick guide and user manual by scanning the QR code.



2. Only certified electricians are allowed to operate the device. Operation personnel must wear proper personal protective equipment (PPE).

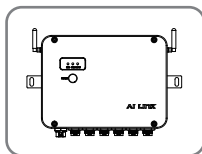
3. Before installing the device, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.

4. The device damage caused by the violation of instructions in this document is not covered under warranty.

5. The cable colors involved in this document are for reference only. Select cables in accordance with local cable specifications.

6. AI Link can be connected to different types of inverters.

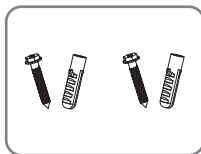
## 1 Packing List



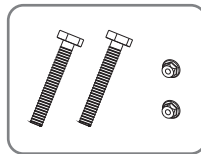
A



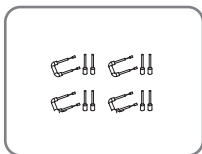
B



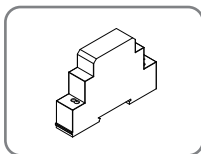
C



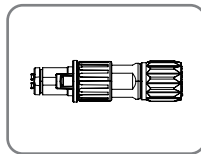
D



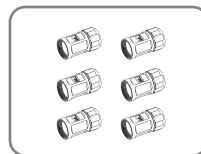
E



F



G



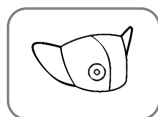
H

OBJ	QTY	DESC	OBJ	QTY	DESC
A	1	AI Link	B	1	Quick Installation Guide
C	2, 2	Self-tapping Screw M6*40, Expansion Tube $\Phi 8 \times 40$	D	2, 2	Hexagon Bolt M6*45, Flange Nut M6
E	4	Terminal Resistor	F	1	Adapter
G	1	DC Connector	H	6	RJ45 Connector

## 2 Required Tools



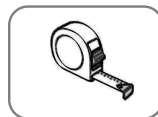
Safety Goggles



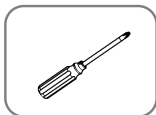
Dust Mask



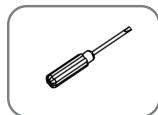
Insulating Gloves



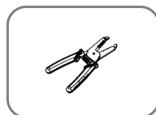
Tape



Phillips-Head Screwdriver



Flat-Head Screwdriver



Wire Stripper



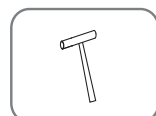
Electric Drill



Adjustable Wrench



Marker



Rubber Mallet



### DANGER:

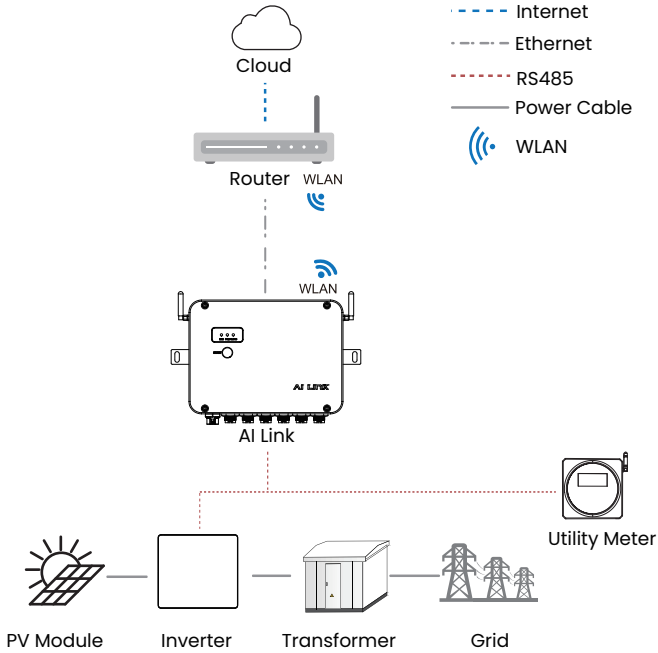
1. Special care must be taken to protect personal safety.
2. PPE must be worn during transfer and installation.



### WARNING:

Please use proper protective measures, such as foam or protective cloth, keep the AI Link well protected from hard objects that may damage their exterior appearance or body during handling and installation.

### 3 Application Scenario



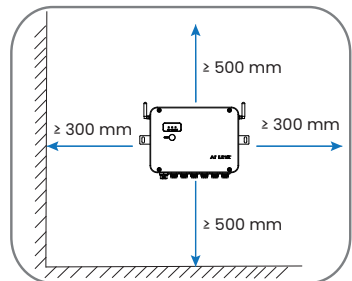
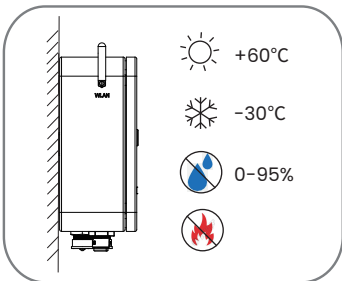
#### NOTICE

The AI Link can be connected to Cloud via Ethernet or WiFi.

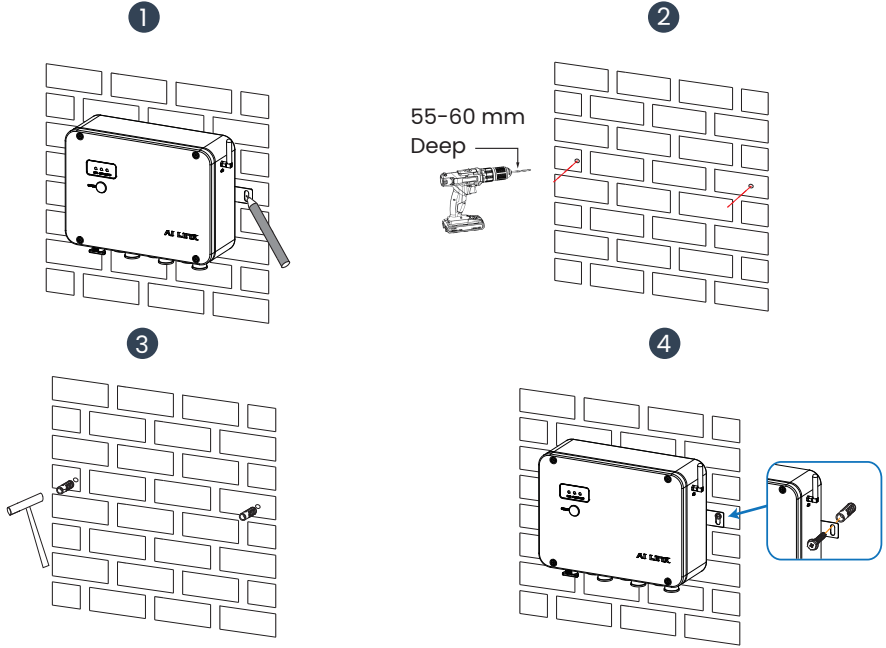
### 4 Installation

#### 4.1 Mechanical Installation

##### 4.1.1 Installation Environment and Space

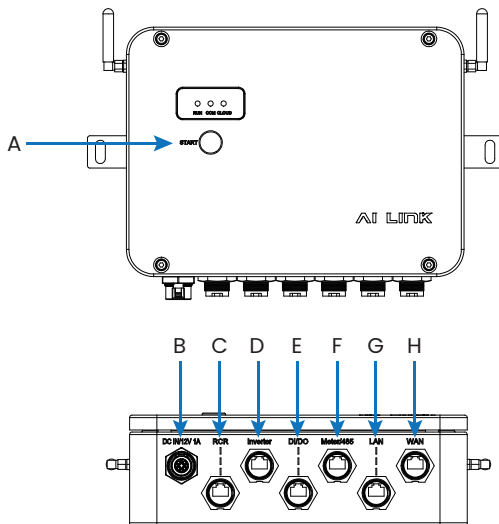


## 4.1.2 Wall-Mounting Installation



## 4.2 Electrical Connection

### AI Link Switch & Terminal Diagram



## AI Link Switch & Terminal Description

OBJ	LABEL	DESC
A	START	Start Button: Short press 0.1–10 s to recognize the sub-devices. Long press more than 10 s to restore factory settings
B	DC IN/12V 1A	DC Input Waterproof Terminal
C	RCR	Ripple Control Receiver Terminal
D	Inverter	Inverter Waterproof Terminal
E	DI/DO	DI/DO Waterproof Terminal
F	Meter/485	Meter/485 Waterproof Terminal
G	LAN	Local Area Network Terminal
H	WAN	Wide Area Network Terminal

## AI Link Terminal Pin Description

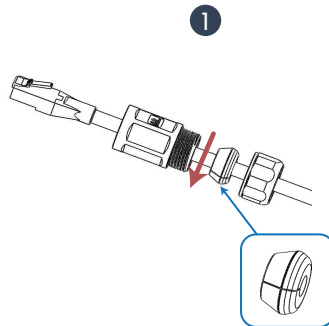
CABLE PIN	1	2	3	4	5	6	7	8
DC IN/12V 1A	DC IN+	DC IN-						
RCR	1-	1+	2+	3+	4+	5+	4-	5-
Inverter			RS485-A2	RS485-B2	RS485-A2		GND	12 V
DI/DO	8-	8+	DO1 COM	DO2 NO	DO2 COM	DO1 NO	DO3 COM	DO3 NO
Meter/485	RS485-B1	RS485-A1	RS485-B3	RS485-A4	RS485-B4	RS485-A3		

## AI Link Indicator Description

INDICATOR	STATUS	DESC
RUN (AI Link Operational Status)	Off	No Power Supply
	Steady On (Green)	Running Normally
	Slow Flash (Red)	Device Alarms
COM (Sub-device Communication Status)	Off	Sub-devices Communication Failure
	Steady On	Sub-devices Communication Normal
	Slow Flash	Part of the Sub-devices Communication Failure
CLOUD (Platform Communication Status)	Off	No WiFi/Ethernet or Fault
	Steady On	WiFi/Ethernet Running Normally
	Slow Flash	Connecting with WiFi/Ethernet

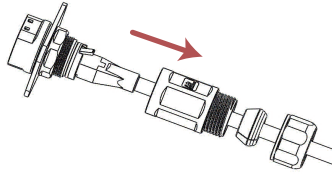
### 4.2.1 Device Connection

#### Preparation



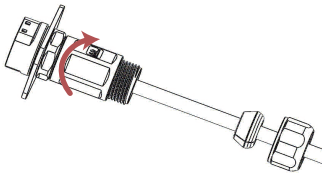
Snap in side seam allowance

2



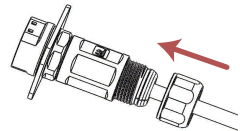
Insert the network cable plug into RJ45 connector

3



Use a spanner to lock the main part onto the RJ45 connector

4



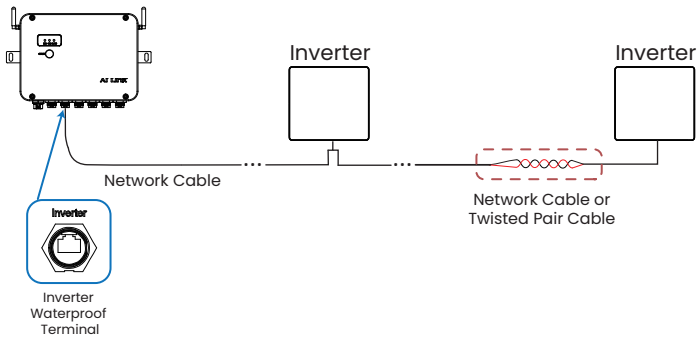
Install the sealing plug into main part

5



Use a spanner to lock the wire lock nut to the main part

## Inverter Connection

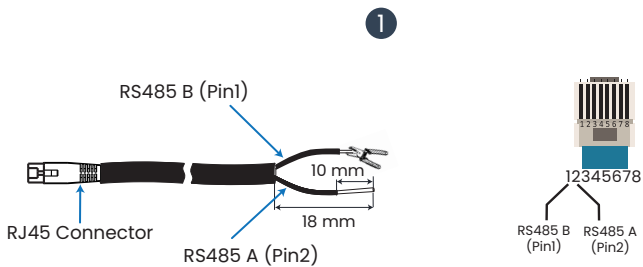


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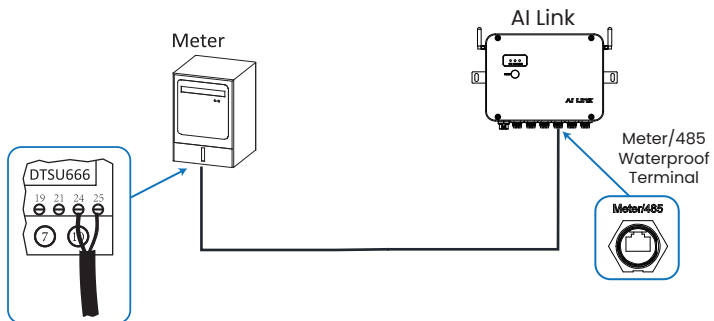
### NOTICE

1. Connect the inverter to AI Link's inverter waterproof terminal via cable.
  2. The AI Link supports access to single or multiple inverters.
  3. Please refer to the inverter's user manual for inverter's RS485 connection information.
- 

## Meter Connection



2

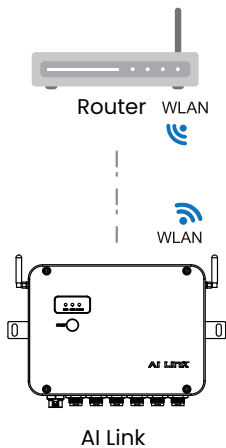


Wiring Table between the AI Link and the Meter

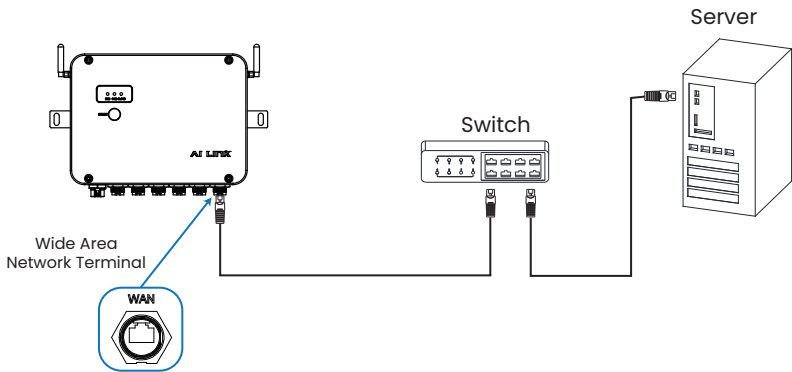
	AI Link	Meter (CHINT DTSU666)
RS485 A	Pin2 (Meter/485, RS485-A1)	Pin 24
RS485 B	Pin1 (Meter/485, RS485- B1)	Pin 25

## 4.2.2 Internet Connection

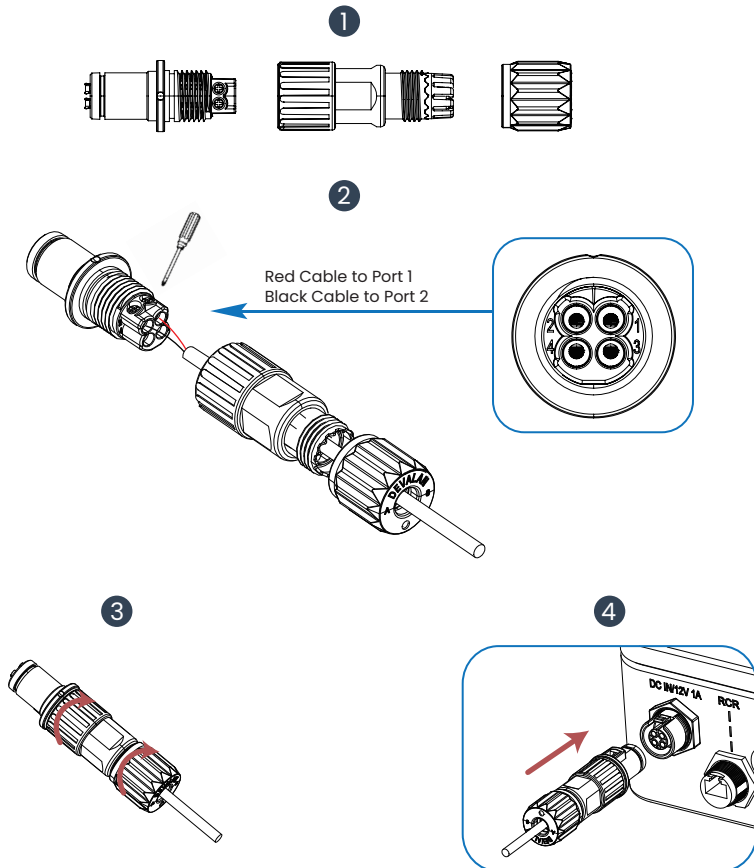
### Method 1: WLAN



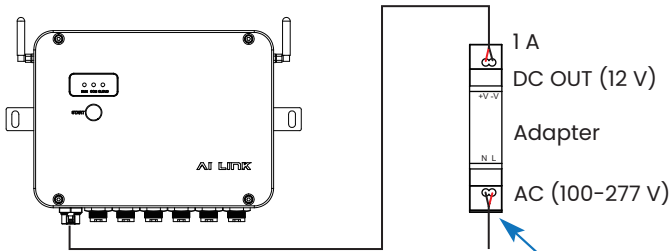
## Method 2: Ethernet



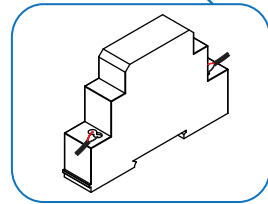
### 4.2.3 Power Supply



5



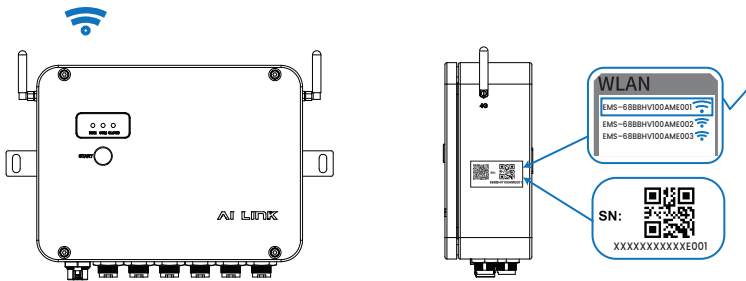
Plug the cable into adapter



### 4.3 Internet Configuration Preparation

Method 1 : WiFi

1



SSID: EMS-68BBHV100AME001  
Password: 12345678



2

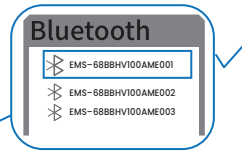
OR



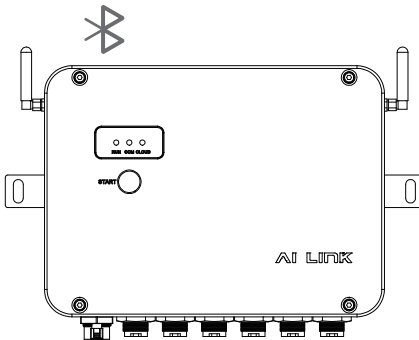
Via Cloud APP 2.0

## Method 2: Bluetooth

1



2



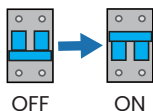
Via Cloud APP 2.0

## 4.4 Commissioning

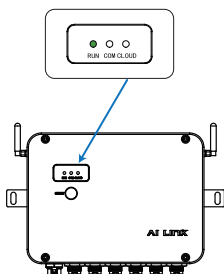
### 4.4.1 Power on

1

Power Supply Switch



2



### 4.4.2 Internet Configuration

- Please configure internet via the Cloud APP 2.0 or Web.

### 4.4.3 Device Connection

- The AI Link will distribute addresses to sub-devices via Cloud APP 2.0, Web, Cloud or Start Button.



#### NOTICE

If the user chooses to distribute addresses to the sub-devices via the start button, please short press the button 0.1–10 s to recognize the sub-devices.

#### 4.4.4 Create Site

- Please create site via the Cloud APP 2.0 or Cloud.

#### 4.4.5 Check

- Please go to the Cloud APP 2.0 or Cloud to check the communication status of each device. It may be necessary to adjust equipment wiring in the field, and only specialized personnel should perform the wiring work.

#### 4.4.6 Wiring & Local Web Interface Configuration Reference

- Please scan the QR code below to get the latest manual for more wiring and local web interface configuration information.





99-203-00396-00-X  
V1.0