E-LINTER V220605-R Ethernet and WiFi Stick User Manual

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Contents

Revision History

Date	Author	Version	Description
2022/06/05	BW	V220605	Initial version

Brief

Introduction

Goldfinch is an Ethernet + Wi-Fi gateway. This manual describes the use of Goldfinch so that users can quickly use the product. This manual applies to the current software and hardware version. We reserve the right to change the content of the manual due to product upgrades. To prevent improper operation, please carefully read this manual before use.

Symbol Description

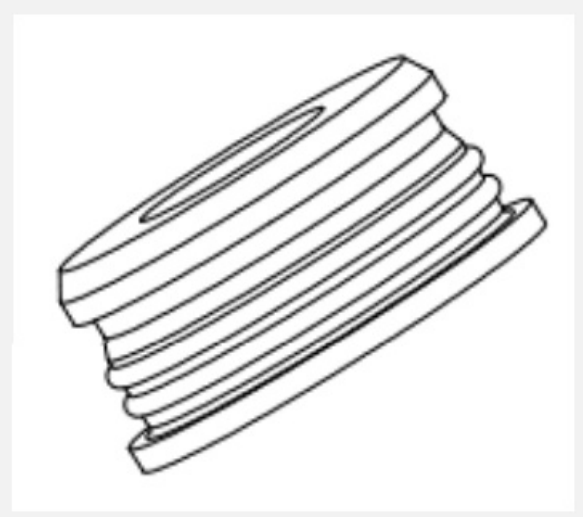| Symbol	Meaning
⚠️	"**Attention**" means there are potential risks, if not avoided, it may not operate normally or ca use losses
⚡	"**Danger**" means that there is a potential hazard, which will cause injury if not avoided
❗	"**Tip**" is used for important or key information to explain how to better use the product

Feature

- RS-485 communication
- Wi-Fi support AP+STA dual mode
- Ethernet and Wi-Fi dual mode
- 10Mbps/100Mbps adaptive Ethernet
- Automatic switch network between Wi-Fi and Ethernet
- Automatic time synchronization when connected to internet
- Support remote OTA for gateway
- Support remote OTA for inverter
- Support local setting parameters for inverter by smart phone
- Support remote setting parameters for inverter by smart phone
- Support data breakpoint resume
- Flame retardant grade: UL94 V-0
- UV protection rating: F1
- Degree of protection: IP65

Package list

Please check the scope of delivery for completeness and externally visible damage. Contact your distributor if the scope of delivery is complete or damaged.

List	Name	Quality
ETH + Wi-Fi Stick P/N: ... S/N: ... KEY: ...	Ethernet + Wi-Fi stick	1
	Sealing plug	2

Indication

- A. USB-A interface Connected to inverter
- B. Hex nut The connection between the collector and the inverter is fixed
- C. Red LED Device communication indication
- D. Green LED Cloud server communication indication
- E. Product label Display product information
- F. Cable hole Network cable through this hole
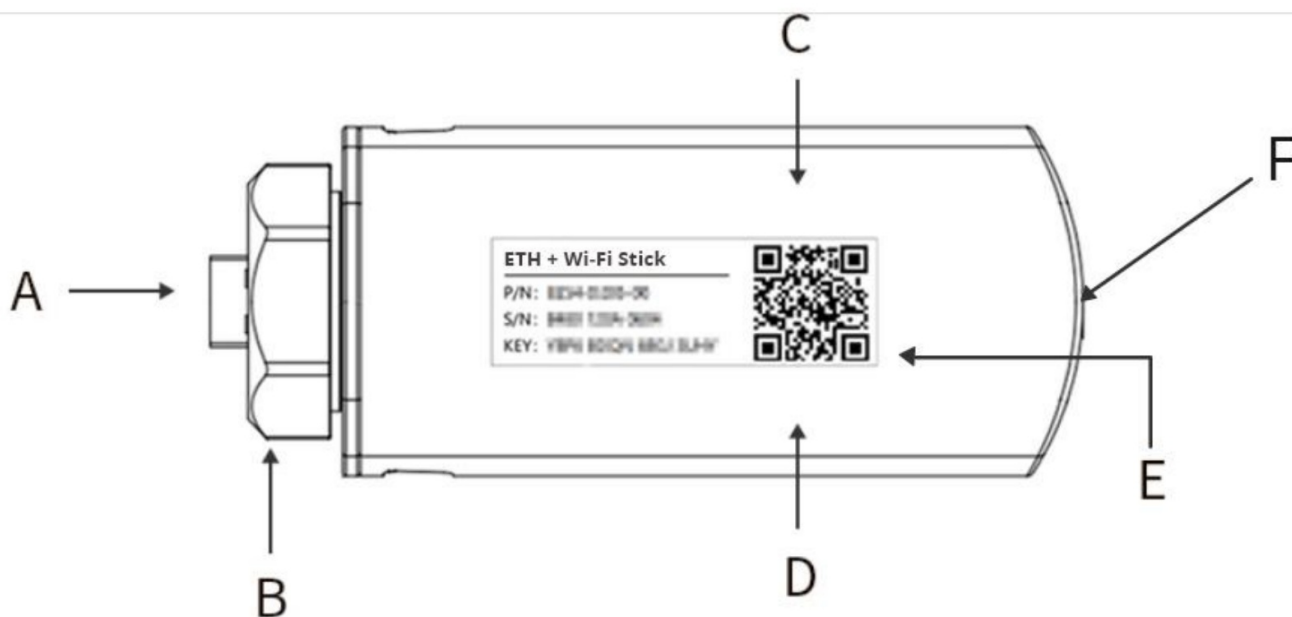
1. ![LED icon] LED glow only when the Goldfinch is powered on.

2. When the Goldfinch is powered on, the green LED glows for 3S, indicating that the Goldfinch is powered on.

3. The more detail LED indication please refer "LED indication and troubleshooting" chapter.

Installation And Removal

This chapter will introduce how to install the Goldfinch on the inverter and how to remove it.
Goldfinch has the function of Ethernet and Wi-Fi communication. If the user only uses Wi-Fi communication, you can skip the chapter "Install the network cable"

Install the network cable

1. Remove the shell: use a flat-blade screwdriver to press the buckles on the left and right sides of the shell, as shown in the following figure. Then pull out the USB-A interface part by hand.
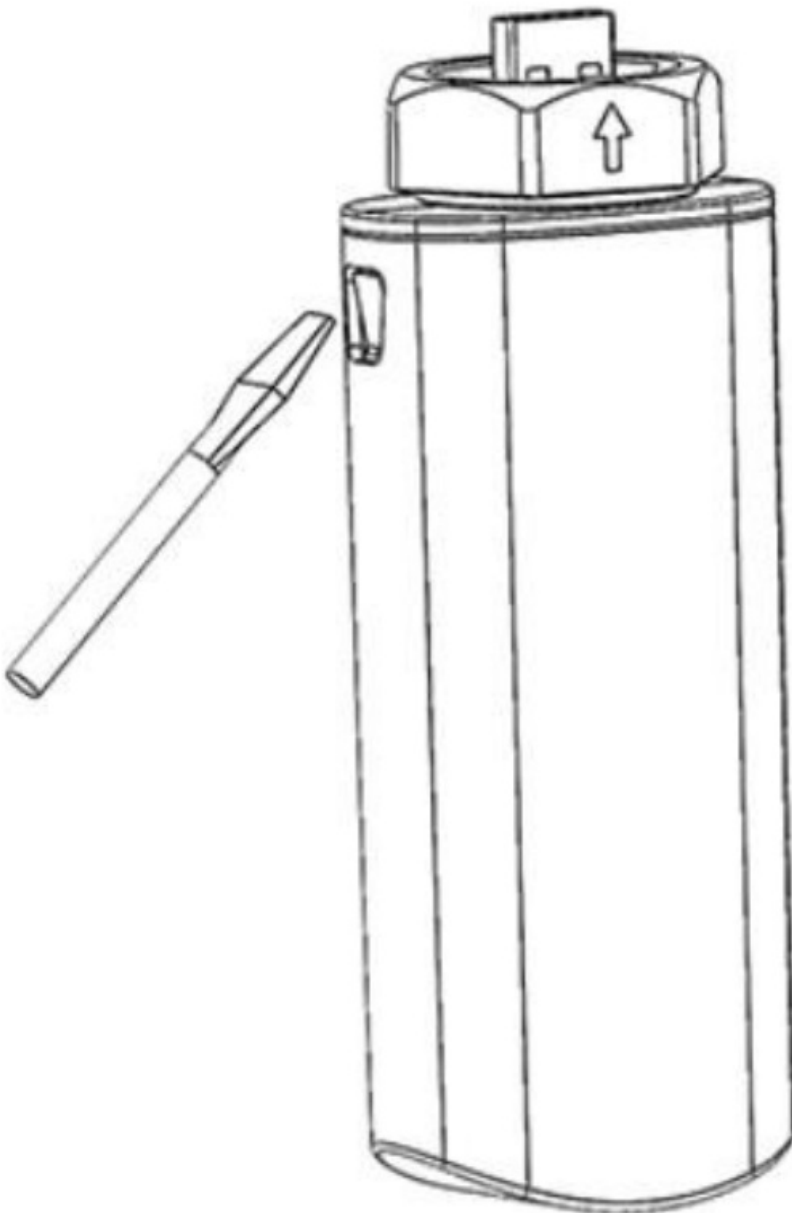
2. Insert the network cable: Pass the network cable through the network cable hole at the bottom of the shell, insert the RJ45 plug into the RJ45 socket, and place the sealing plug with the hole on the network cable, as shown in the following figure.
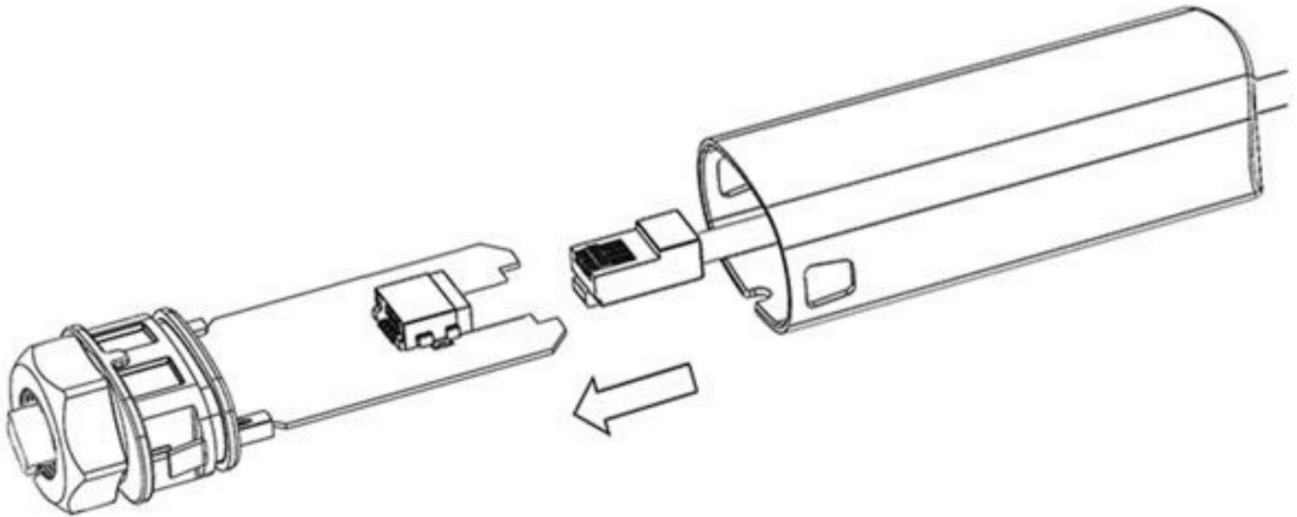
Insert the network cable

1. ⓘ It is recommended to use the CAT5 or above standard network cable to connect the Goldfinch.
2. If you install it in outdoor, please choose a network cable with waterproof and UV protection.

3. Assemble the shell: Insert USB-A interface part into the shell until the shell is fully connected, as shown in the following figure:

Assemble the shell

4. Install the sealing plug: insert the sealing plug into the network cable hole at the bottom of shell to ensure it is in a sealed state, as shown in the following figure:
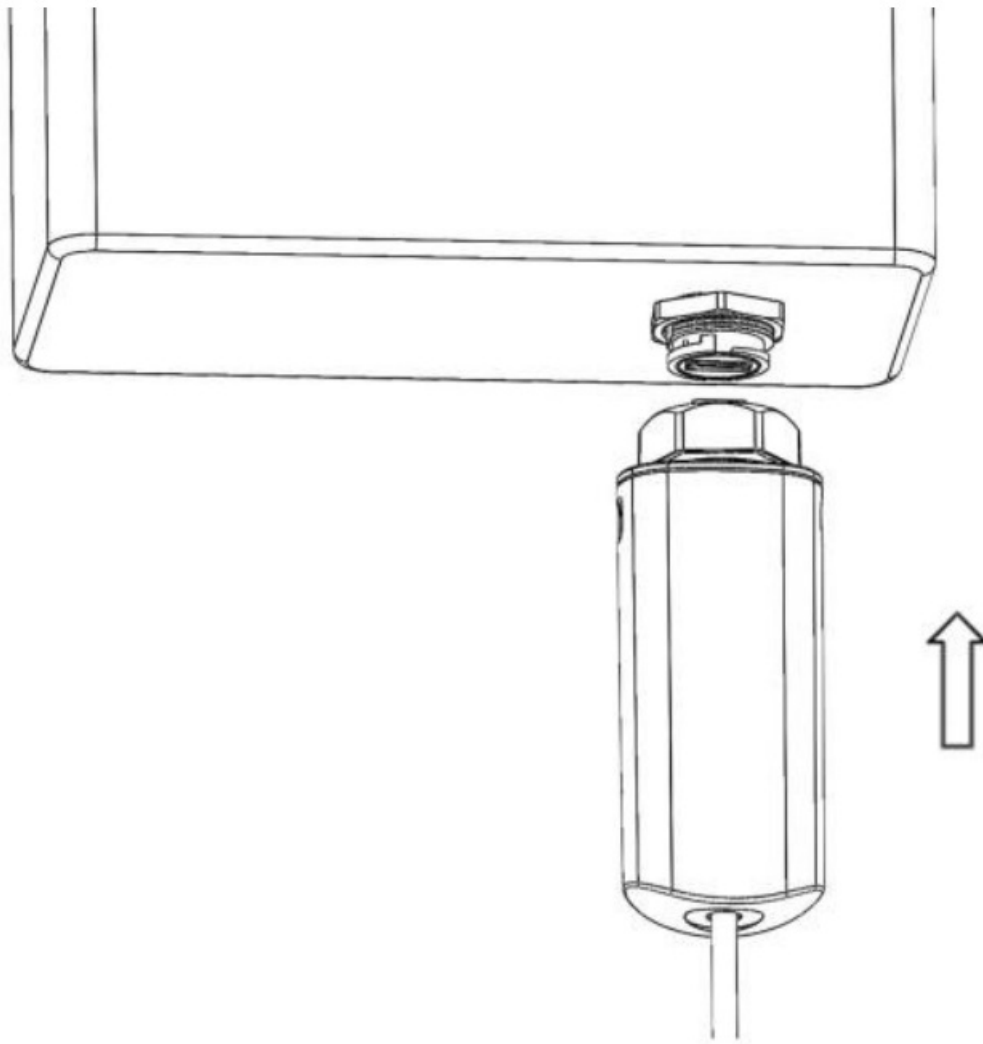
install the sealing plug

⚠️ If not use Ethernet communication, please use a non-porous sealing plug to plug the network cable hole at the bottom of the Goldfinch to ensure that the product is in a sealed state.

Install the Goldfinch

1. Insert into inverter's USB-A interface: insert the Goldfinch into the inverter's USB-A interface, as shown in the following figure:
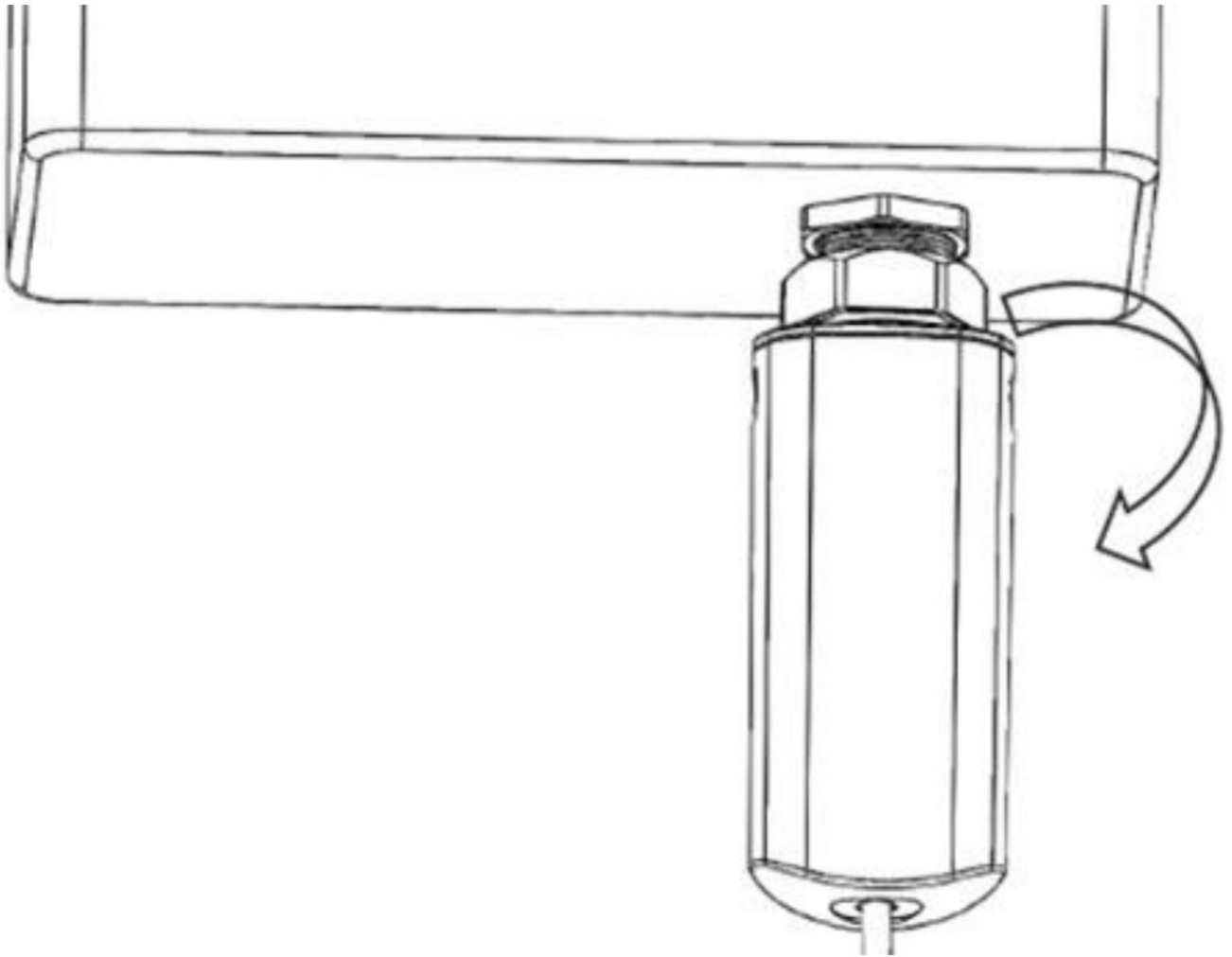
2. Tighten the nut: Rotate the hexagon nut clockwise as shown in the following figure to complete the installation.
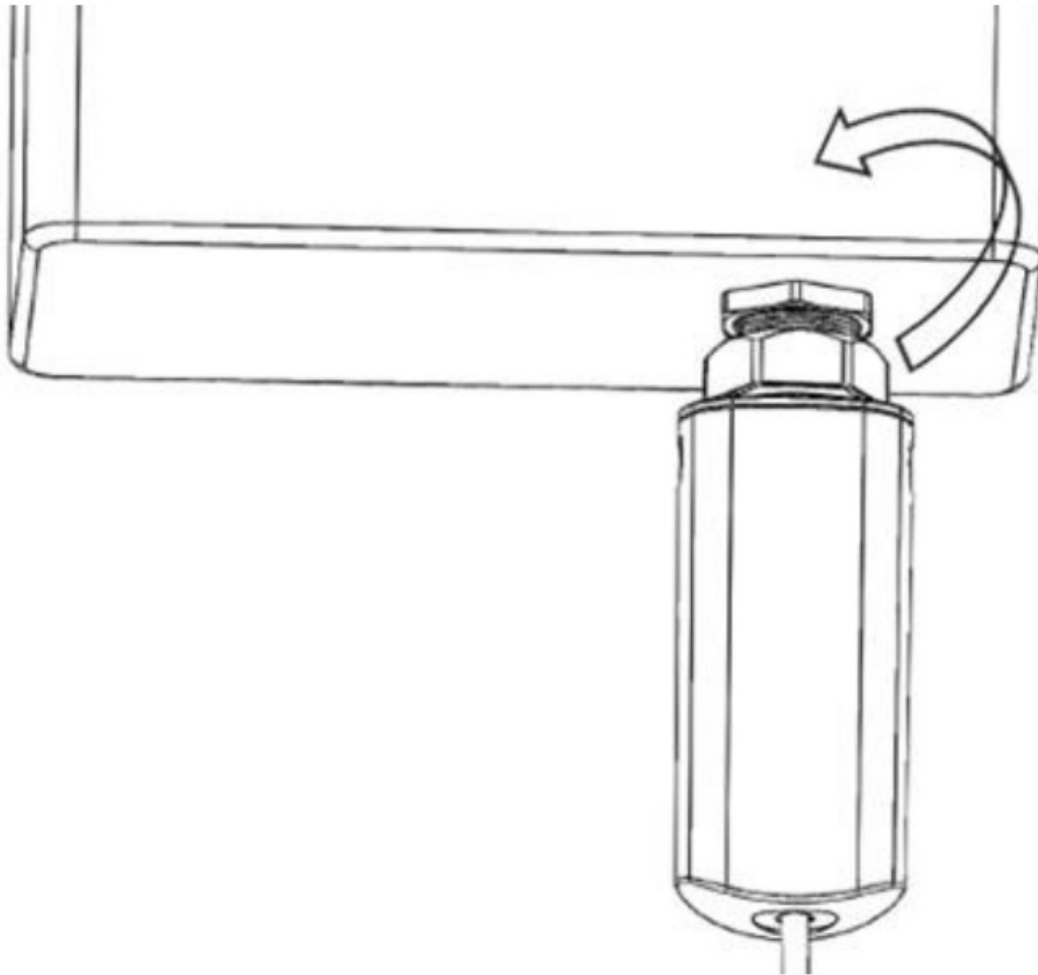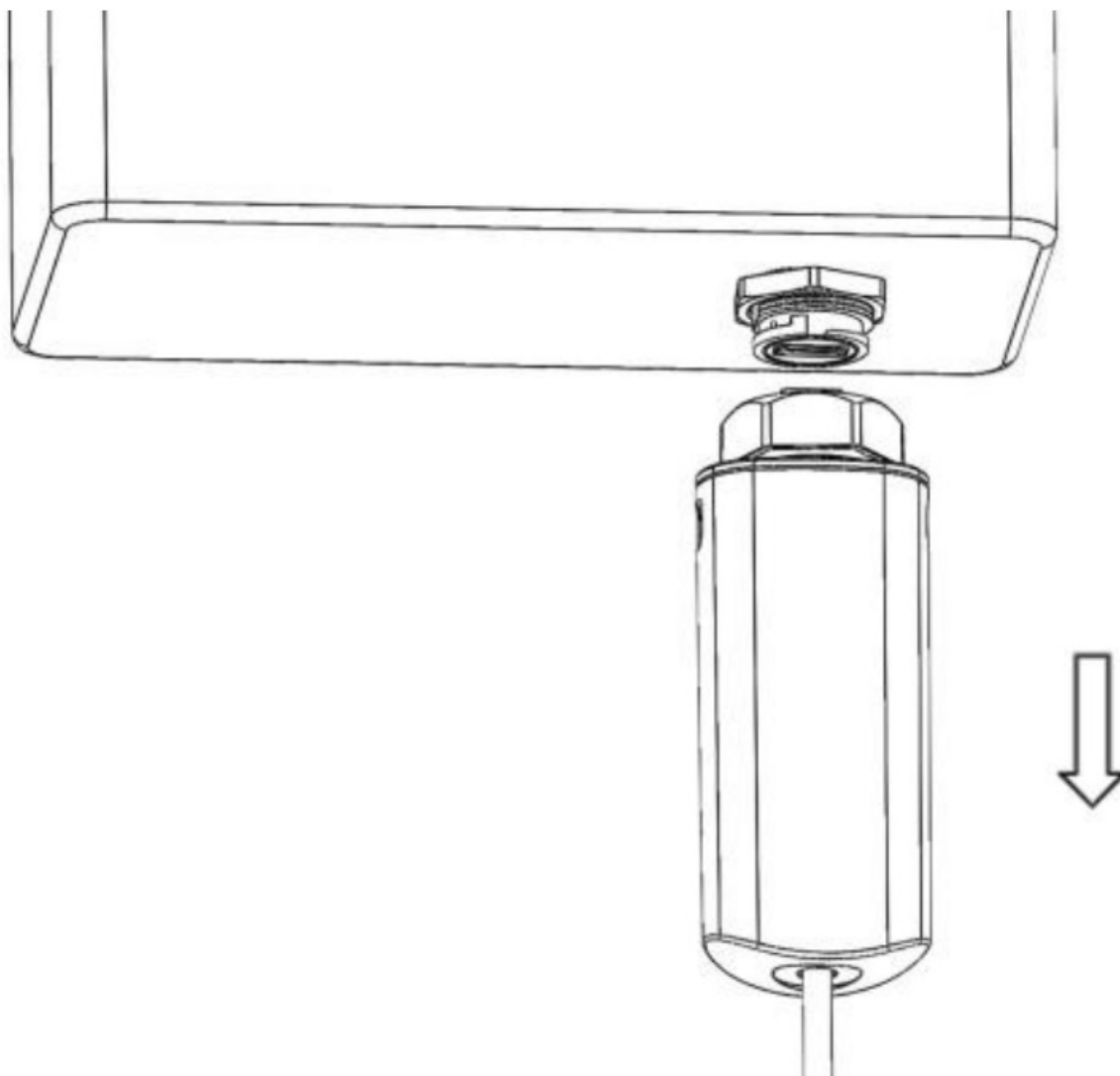
Remove Goldfinch

1. Loosen the nut: as shown in the following figure, turn the hexagon nut counterclockwise until the thread is completely withdrawn;

2. Pull out the collector: Pull out the collector in the arrow direction, as shown in the following figure.

Network Connection

The Goldfinch supports both Ethernet and Wi-Fi communication. The configuration method of Ethernet and Wi-Fi communication is described in the following sections.

 When connecting to the network, the inverter must be powered on.

Ethernet connection

The Ethernet communication diagram of Goldfinch is shown in the following figure. If you need to manually set network parameters, the specific process can be in accordance with Chapter 7 "Download APP" to download the corresponding APP, and configure the network parameters according to the operation guide of the APP.

LAN   WLAN
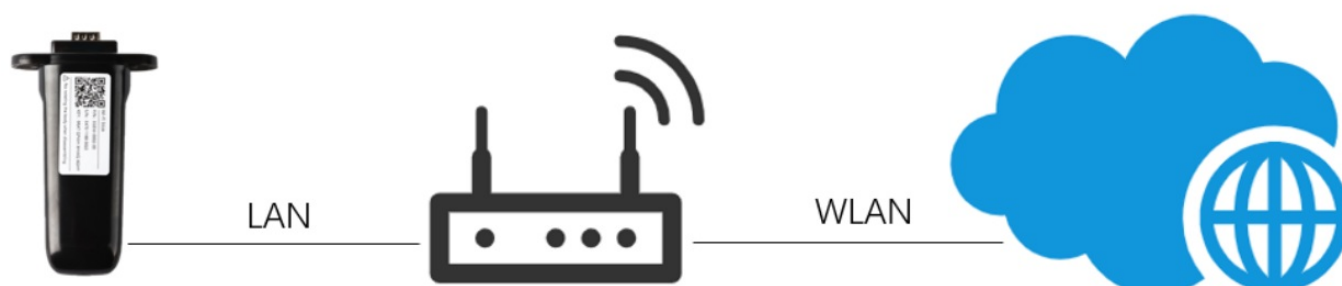
1. ![icon] Make sure that the router has the internet access.

2. It is recommended to enable the DHCP function of the router.

3. In order to ensure that the Goldfinch can connect to the cloud server, the remote service access port: 51100 and 80 must be enable.

Wi-Fi connection

The Wi-Fi communication diagram of Goldfinch is shown in the figure below. The specific process can be downloaded according to Chapter 7"Download APP" to download the APP, and configure the network connection according to the operation guide of the APP.
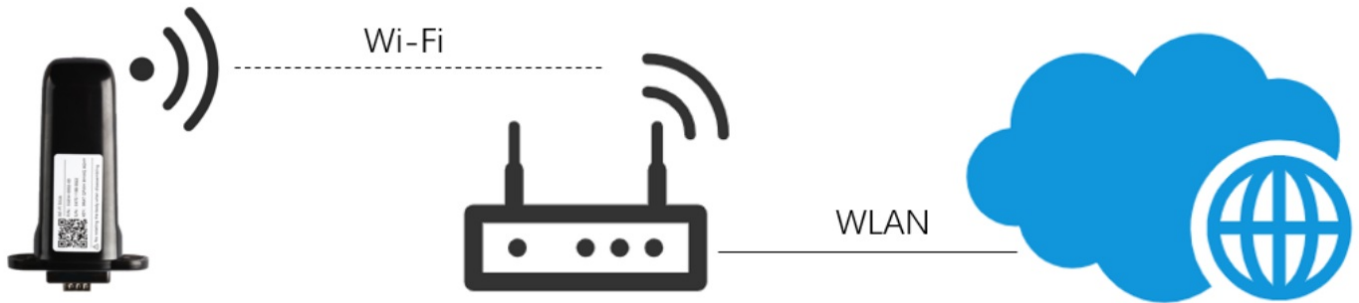
![warning icon] If the user does not need Ethernet communication, please plug the network cable hold with the holeless sealing plug, to ensure that the product is in a sealed state.

Download APP

iPhone : search "Power View ES" in Apple Store, or scan the image below with a QR code.

Android: search "PowerView ES" in Google Play, or scan the image below with a QR code.

Installation Confirmation

When the red LED and the green LED on the Goldfinch are always glowing, it indicates the Goldfinch is normal, and it flashes during data transmission. Otherwise, it needs to be corrected by referring to the LED indication and troubleshooting chapter.

LED Indication And Troubleshooting

 Red LED: Device communication indication.

 Green LED: Cloud server communication indication.

LED	State	Indication
🔴	Flash every 2S and then glowing	Communication is normal
	Not glow more than 20S	The power supply or device is abnormal 1. Check the device DB9 supply whether is normal 2. Goldfinch abnormal, contact your distributor
	Flash every 2S and then does not glow	Device communication failure please check the Goldfinch connection with inverter whether is loose
🟢	Continuously glows 3S when powered on and goes out	Power on indication
	Glow more than 5S	communication is normal
	Flash and then glow	Network transmit data
	Flash once every minute and then off	The route is not connected: 1. Please check the password whether is right 2. Please check the strength of the router
	Flash 3 times every minute and then off	Connect to the route, but can't connect to the cloud server 1. Check whether has internet access. 2. Please check the firewall setting
	Flash 4 times every minute and then off	Device communication is error Contact your distributor
🔴🟢	Flash 2 times at the same time	Goldfinch found Ethernet cable inserted
🔴🟢	Flash 3 times at the same time	Goldfinch found Ethernet cable plugged out

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference.

(2)This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

http://www.e-charging.cn/

Documents / Resources

E-LINTER logo Ethernet + Wi-Fi Stick (Goldfinch) User manual V220605-R	**E-LINTER V220605-R Ethernet and WiFi Stick** [pdf] User Manual 2BAGJEESW, PQUM-0001-V191207R, V220605-R, V220605-R Ethernet and WiFi Stick, Ethernet and WiFi Stick, WiFi Stick, Stick

References

- **-**
- **e-linter.com**
- **e-linter.com/**