※ **Thank you for selecting this WiFi 2.4G RJ45 D adapter; please read this manual carefully before using the product.**

※ **Do not install the product in humid, salt spray, corrosion, greasy, flammable, explosive, dust accumulative, or other severe environments.**

WiFi Adapter

WiFi 2.4G RJ45 D

1. Overview

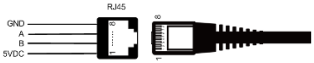
Through a local 2.4G WiFi network, the WiFi 2.4G RJ45 D can transmit all operational data from the solar controller, inverter, or inverter/charger to the cloud server in real-time. Users can remotely monitor connected devices and program parameters via the server platform and mobile app.

Features

- Suitable for controllers, inverters, or inverter-chargers with RJ45 port
- Can be used immediately after connecting, with easy and convenient operation
- Directly powered by the communication port
- Up to 20 meters of communication distance
- Supports the “Local” monitoring and "Cloud" working modes.

2. Appearance

❶**RJ45 connector:** Connect to the RJ45 port of the controller, inverter, or inverter/charger. RJ45 Pin Definition：



Pin	Definition	Pin	Definition
1	+5VDC	5	RS485-A
2	+5VDC	6	RS485-A
3	RS485-B	7	GND
4	RS485-B	8	GND

3. Specifications

Parameter \ Model	WiFi 2.4G RJ45 D
Working voltage	5V± 0.5V(Powered by RS485 com. port)
Power consumption	Peak: 150mA; Idle: 310uA
Enclosure	IP30
Communication method	RS485
Communication parameters	115200Bps, 8N1
Interface standard	Communication standard V1-1.0
Work frequency	2.4 ~ 2.4835 GHz
Work temperature range	-40℃~ 85℃
Dimension	63mm x 19mm x 10mm
Net weight	7.7g

Note: The WiFi adapter working voltage is 4.5V~5.5V and peak consumption is 150mA, so it is only suitable for devices that meet this requirement.

4. Working processes

① Connect the WiFi adapter to the RJ45 port of the device. ② Add the WiFi adapter into the cloud by the PC or mobile app. **WARNING: The WiFi adapter is not compatible with the PU1024B/PU2024B, PU1024BW/PU2024BW and LS-B series controllers. If the WiFi adapter is installed in a metal cabinet, the signal strength and distance will be reduced, depending on the material and size of the cabinet.**

✧ Scenario 1: There is a local 2.4G WiFi network. The WiFi adapter can upload the collected data to the cloud automatically.

Step1: Turn on the WiFi switch on the mobile phone, and connect to the local WiFi network (a **2.4G WiFi network is a must**).

Step2: Log into the app and click the icon to add a new gateway.

Step3: Select the gateway model.

Step4: Input the gateway data (**"Gateway SN" is the 22-digit number of the gateway WiFi name**), and click "Next Step" to enter the device adding page.

Step5: After adding the device, click "Next Step" to enter the above page.

Step6: Input the local WiFi password and click "Next Step."

Step7: Click "Go to set up Wi-Fi" to connect phone to the gateway WiFi (HN_EPSN: xxxxxx,password:12345678). Return to the app after connection, and click "Next Step."

Step8: After the gateway is successfully connected, connect the phone to local WiFi or 4G with Internet access. Then you can monitor the device through the app.

✧ Scenario 2: There is no local 2.4G WiFi network. The WiFi adapter cannot upload the collected data to the cloud.

Step1: Login to the app and click "My>Collect Data." Select all products and click "Synchronize data" to download data.

Step2: After all data is downloaded, return to the app. Click "Home > Offline."

Step3: Select the module type (WIFI)

Step4: Turn on the phone WiFi switch and connect the phone to the gateway WiFi(HN_EPSN: xxxxxx, password: 12345678).

Step5: Return to the app and click "Equipment>Add equipment" (**"GatewaySN" is the 22-digit number of the gateway WiFi name**).Click "Confirm" to add the device.

Step6: On the "Device List" page, click the gateway SN to enter the device's real-time monitoring page.

Please note that changes can be made without prior notice. **Version number: V1.1**