※ **Thanks for selecting the BLE-RJ45-A Bluetooth module. Please read this manual carefully before using the product.**

※ **Please keep this manual for future reference.**

Bluetooth adapter

1. Overview

BLE-RJ45-A is a new Bluetooth adapter suitable for solar controller, inverter, and inverter/charger. Adopting the Bluetooth 5.0 transmission and BLE (Bluetooth Low Energy) technology, BLE-RJ45-A enables data collection, communication, and wireless monitoring of connected devices.

Features:

- Support communication by APP
- Support data encryption
- Use immediately after connecting, easy and convenient operation
- Feature fast communication and strong anti-interference ability
- Directly powered by the communication port
- Up to 10 meters communication distance
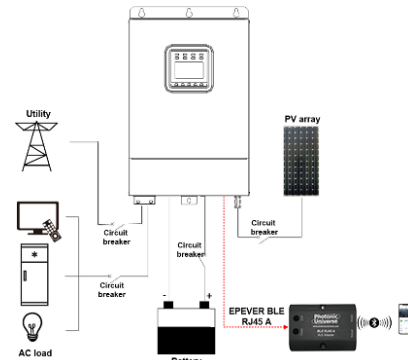
2. Appearance

Ports Instruction

No.	Name	Instruction
❶	RJ45 port	To connect the solar controller, inverter, and inverter/charger
❷	Link indicator	Display communication status
❸	Power indicator	Display power status

Indicator

Indicator	Status	Instruction
Link indicator	ON solid in green	Connect to Bluetooth successfully.
	OFF	Not connect to Bluetooth.
	Fast flashing in green	Restore the factory setting.
Power Indicator	ON solid in green	Normal power on
	OFF	No power on

3. Working processes

Step1: Connect the RJ45 port of the Bluetooth module to the controller, inverter, or inverter/charger. Take the inverter/charger connection as an example.
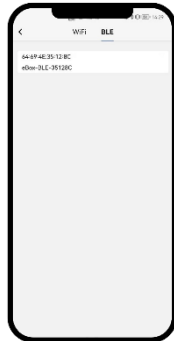

Note: The Bluetooth module only supports one-to-one communication (i.e., a Bluetooth module can only connect one controller, inverter, or inverter/charger). Detail connection cable refers to the connected device accessories list.
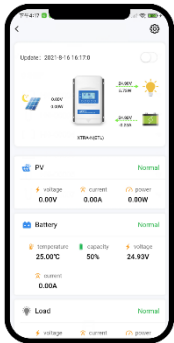
Step2: Turn on the Bluetooth switch on your phone, and open the *Pair* APP. Click the "**Local**" icon on the home page to enter the **BLE** connection page.

Step3: Click the "**BLE**" icon to search the modules automatically, and click the module's name to connect it.

Step4: After connecting successfully, remote monitor the device connected to the Bluetooth module by the phone APP.

Note:

(1) The phone and the Bluetooth module can't be placed more than 10 meters away.

(2) The Bluetooth module only supports the "**Local**" function of the APP and does not support the "**Wifi on cloud**" function.

4. Specifications

Model / Parameter	BLE-RJ45-A
Input voltage	5V± 0.5V (Powered by RS485 com. port)
Power consumption	5V@30mA
Communication distance	≤10m
Serial port baud rate	2400~115200bps (default 115200bps）
Communication method	RS485 to Bluetooth
Connection port	RJ45 port
Connection cable	Standard network cable (parallel line)
Bluetooth protocol	Bluetooth 5.0, compatible with Bluetooth 4.0
Dimension	51 x 67 x 24.5mm
Mounting dimension	41.2,Φ3.2
Working temperature	-20~70℃
Enclosure	IP30
Net Weight	37.9g

5. Disclaimers

The warranty does not apply to the following conditions:

- Damage caused by improper use or inappropriate environment.
- The parameter setting exceeds the Bluetooth module's limit.
- Damage caused by working temperature exceeds the rated range.
- Unauthorized dismantling or attempted repairs.
- Damage caused by force majeure.
- Damage occurred during transportation or handling.

Any changes without prior notice!   Version number: V1.3