



DLB Wireless Device

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⚠ If the models and specification in this product catalogue is changed due to the change of products, we will not inform.



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DLB Wireless Device

1. Safety Information

Thank you for purchasing and using the DLB wireless device of BENY. This document contains important instructions and warnings to follow when using and maintaining DLB wireless devices. To help you use this product correctly, please read this manual carefully before charging.

Warning

- Please read this mandatory document in full before using DLB wireless device.
- Supervise the operation of the device around children.
- Do not install or use DLB wireless devices near flammable, explosive, irritating or combustible materials, chemicals or steam.
- Use DLB wireless device only within the specified operating parameters.
- Stop using the DLB wireless device which is defective, fractured, worn, broken or otherwise damaged or inoperable, and do not use the charger.
- Do not attempt to disassemble, repair, tamper with, or modify DLB wireless device. Please contact the user for any repair or maintenance.
- Do not touch the terminals of the DLB wireless device with sharp metal objects, such as wires, tools, or needles.
- Do not forcibly fold or press any part of the DLB wireless device, or damage the DLB wireless device with sharp objects.
- Do not insert foreign matter into any part of the DLB wireless device.
- Please confirm whether the charger parameters match the DLB wireless device before use, otherwise it may be unusable.

Notes

- This product is only applicable to the EV charger.
- There shall be no strong signal interference around the operating device.
- This product does not contain any part that can be maintained by users. Please do not try to repair and maintain it yourself.
- If the device cannot be used normally according to this operation manual, please contact the dealer for repair or replacement.
- Do not operate the device at temperatures outside the working range of -30°C to + 55°C .
- When there is a linear communication barrier, the communication distance will be attenuated accordingly.
- If there is a metal object near the antenna or the device is placed in a metal shell, the signal will be attenuated significantly.

DLB Wireless Device

2. Product Introduction

DLB wireless device is designed according to EN 61010-1, EN61000-6 standard, with one end built in charging pile, and the other end connected with DLB through network cable and placed externally through the guide rail. DLB wireless device can solve the wiring trouble and realize long-distance data sending and receiving.

2.1 Product appearance

• External device (BCP-W485-DLB)



• Built-in device (BCP-W485-EV)



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2.2 Technical parameters table

Parameter	Value
Criterion	EN 61010-1, EN61000-6
Rated input voltage (external device)	230V±15%
Standby/working power consumption (external device)	0.3W/0.6W
Transmission distance	50m-100m
Working frequency band	410MHz-510MHz
Working temperature	-30°C-55°C
Storage temperature	-40°C-80°C
Working humidity	5%-95%

3. List of Accessories

Network cable - 0.3m
(RJ45 TIA/EIA-568B
8-core cat5 twisted pair cables)

X1

Network cable - 10cm
(RJ45 TIA/EIA-568B
8-core cat5 twisted pair cables)

X1

433MHz Glue Stick
Antenna with SMA

X1



2P/5.08mm pluggable
terminal block plug

X1



2P/3.81mm pluggable
terminal block plug (optional)

X1

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4. Installation Method

4.1 Installation preparation

Determine the installation position

- Ensure that there is no interference by the signal of the same frequency around the installation position.
- Do not install it in a metal shell.
- Install it in a well-ventilated space. Avoid approaching high-power appliances.

Determine the installation height

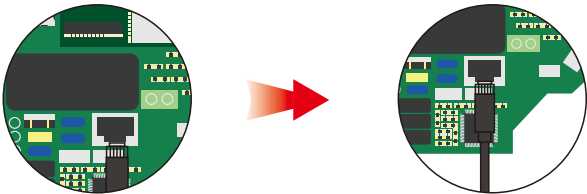
- It is recommended that the installation height is consistent with the charging pile height.

Determine the maximum receiving distance

- For optimum functionality and maximum reception of signals, avoid the long installation distance that may prevent the reception of signals.

4.2 Schematic diagram of installation

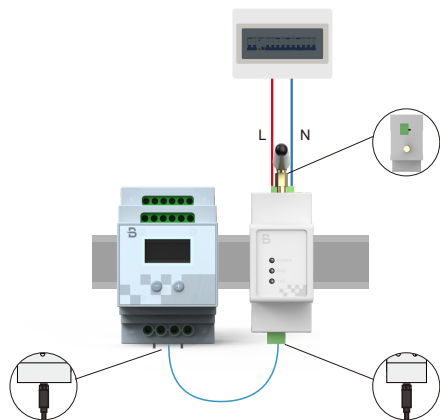
Step1: Installation of built-in module



Note: three-phase portable device does not require the installation of built-in equipment, and it has its own receiving equipment.

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Step 2: Installation of external device

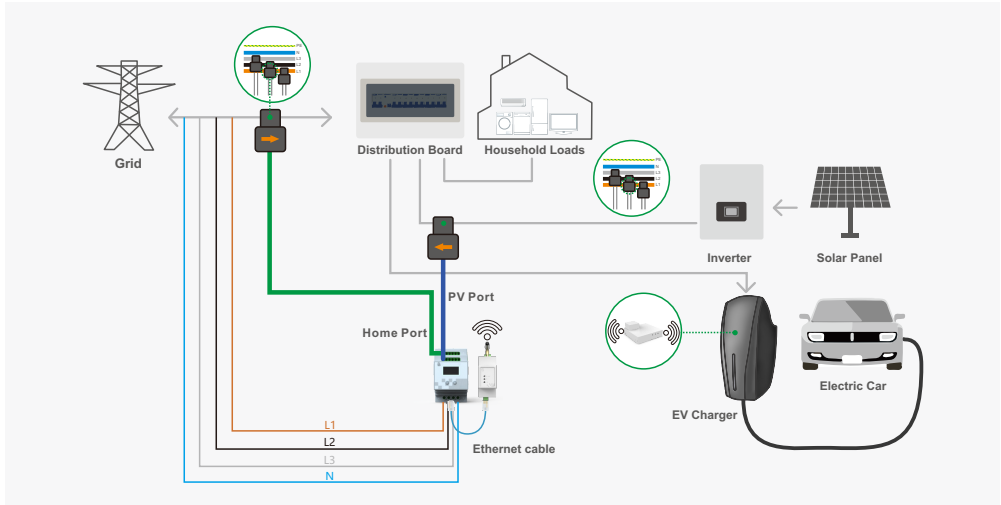


Note: Please refer to the DLB specification for details of DLB wiring

Note: External device shall be powered by AC230V ±15% power supply without ground wire

Note: The 3.81mm terminal plug under the external device is an optional device, which is used to connect the BENY EV charger's monitoring device. If it is not necessary to connect the monitoring device of the BENY EV charger, you can skip installing it. For more information about the wiring of the monitoring device, please refer to its specifications.

Step3: Overall schematic diagram



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Step4: Inspection before power-on

- Check and ensure that the wireless module is firmly connected to the DLB network cable.
- Confirm that the built-in module and the network cable at the charging pile port have been firmly connected
- Check whether the power the cord of DLB wireless device is properly and securely connected.
- Observe the status of the LED indicator after boot self-test is completed. Normal standby status: the blue POWER indicator is always on.

Operational warning

- Do not dismantle or modify the charging facilities and lines without authorization, otherwise fire and electric shock accidents may be caused.
- In case of a power failure accident, the device shall be maintained by professionals or authorized operation and maintenance personnel, otherwise there may be electric shock danger; it is not allowed to charge and maintain the equipment without disconnecting the power supply, which may cause electric shock.
- There shall be no combustible or flammable materials around the charging equipment. If so, the materials shall be cleaned in time, otherwise there may be a fire risk.

5. Working Status

• LED status

Description of indicator status	Module status
Blue light always on	Power on
Green light flashes (TX)	Send data
Green light flashes (RX)	Receive data

Note: After the power supply is turned on correctly, it starts to receive and send data normally about 3s.

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6. Warranty

In order to ensure the normal service life of the DLB wireless device and reduce the risk in use, it shall be overhauled within the specified period; the device shall be maintained and repaired by professionals with qualified safety maintenance tools.

- Free warranty is provided for any damage or malfunction due to quality problems in 3 years from the date of production of the DLB wireless device.
- Damage caused by failure of operation, irresistible natural causes, incorrect installation or instructions for use is not covered by the warranty.
- Non-specialized personnel are not allowed to repair DLB wireless devices. If there are any problems during installation or use, please contact the dealer first.