



BRC Solar BRConnect Gateway User Guide

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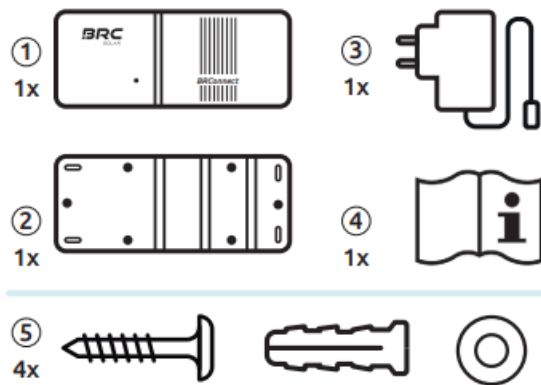
Instruction manual BRConnect Gateway

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SCOPE OF DELIVERY

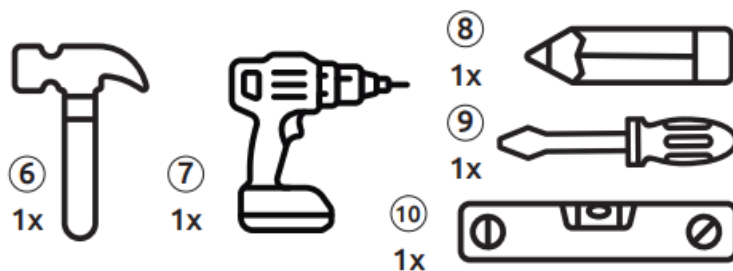
Required tools



Scope of supply

1. BRConnect Wall mount
2. Power supply Instruction manual
3. Mounting kit

Required tools



Operating accessories



Required tools & accessories

- 6 Hammer Drill Pencil
 9 Torx T20 screwdriver Spirit level
 11 Ethernet cable 230V socket

ADDITIONAL LANGUAGES AVAILABLE ON OUR WEBSITE WEBSITE WWW.BRC.SOLAR.DE



<https://brc-solar.de/downloads/>

SAFETY INSTRUCTIONS

A) GENERAL

The BRConnect may only be operated in accordance with the intended use and the specified technical data.

Please note all instructions from BRC Solar GmbH given in the instruction manual as well as the warning notices on the BRConnect. The warning notices on the BRConnect must always be clearly legible and must not be removed, changed or manipulated.

Applicable local laws, regulations, guidelines and standards must be given priority for operation, installation, uninstallation and maintenance. The safety instructions in the instruction manual are not complete and only serve as supplementary information.

B) ELECTRICAL SPECIALISTS

All work related to the product may only be carried out by qualified electricians. The electrician must comply with national and regional regulations.

Please read and follow all instructions carefully before installation. If there is anything unclear or you need detailed information, please call our service telephone.

Electrical work may only be carried out in compliance with the 5 safety rules of electrical engineering. Only install intact BRConnect with a complete scope of delivery. Only use the accessories included in the delivery – especially with regard to the power supply.

Do not make any modifications to the BRConnect.

Pay particular attention to running voltage-free string cables through the BRConnect during assembly to prevent electric shocks.

C) END USER

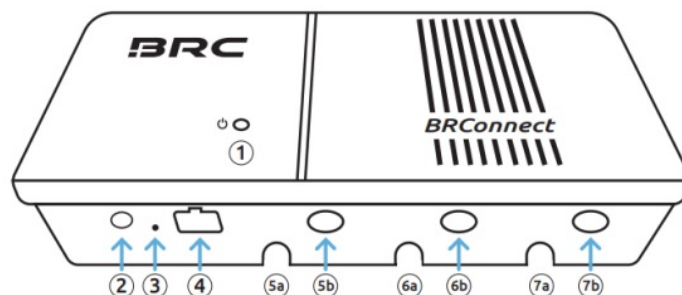
Under no circumstances should you carry out any work on the BRConnect yourself.

Do not open the housing.

Please keep the instruction manual so that they are available for all activities related to the product.

PRODUCT OVERVIEW

A) ASSEMBLY



1. LED
2. 24V DC connection
3. reset button
4. Lan ethernet socket
5. cable bushing of string 1
 - 5a S1- string –
 - 5b S1+ string +
6. cable bushing of string 2
 - 6a) S2- string –
 - 6b S2+ string +
7. cable bushing of string 3
 - 7a) S3- string –
 - 7b S3+ string +









B) INTENDED USE

The BRConnect is a gateway for private, commercial and industrial photovoltaic systems. In combination with the M600-M and the BRC Power Manager, it is used for data monitoring of the photovoltaic system at module level. Data from the M600-M is recorded and processed using powerline communication via DC cables. The end user can view this data via the BRC Power Manager, making it possible to monitor the photovoltaic system. BRC Power Manager is available as a desktop or app version. In order to use the product as intended, a fixed installation is required, which must be carried out by a qualified electrician in accordance with the explanations under point 4. When setting up the BRConnect, please ensure compliance with the specified technical data. Pay particular attention to the following information:

- The BRConnect has protection class IP40 and is therefore intended for indoor use. Please keep the device away from liquids, humidity and heat sources as well as direct sunlight.
- The product is designed for operation at ambient temperatures of – 20°C to + 55°C.
- The product is only approved for operation up to 2,000m above sea level.
- The BRConnect has Ethernet and WLAN interfaces to provide the data to the BRC Power Manager.
WiFi standard WiFi frequency range
WiFi 4; 802.11n 2,4 GHz
- If the use deviates from the use explained here, this is considered improper. The manufacturer assumes no liability for damage caused by improper use.

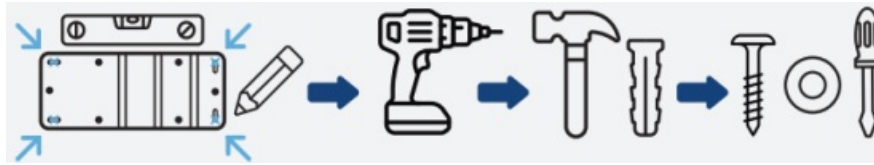
The information in the limited product warranty applies (<https://brc-solar.de/downloads/>).

LED OVERVIEW

LED signal	Explanation
no light 	BRConnect has no power supply or is defective, check power supply otherwise contact support hotline
lights up blue 	visible immediately after starting (approx. 7-8 sec), then switches to connection mode and can be seen again as normal state after successful setup via power manager app
slowly flashes blue 	waiting for Bluetooth connection with mobile phone/tablet. Open Power Manager App, follow the app instructions (see page 8) up to step 6. Now the search for BRConnect is running = flashing frequency 1 second on, 1 second off
lights up green 	Bluetooth connection with mobile phone/tablet established. Set string information in Power Manager app. Enter the IP address and WLAN settings via the Power Manager app or plug in the Ethernet cable
slowly flashes green 	establishing connection to local network (no action necessary, check local network connection if the status persists) = flashing frequency 1 second on, 1 second off
quickly flashes green 	Network connection active, establishing connection to cloud (no action necessary, check internet connection if the status persists) = flashing frequency 200ms on, 200ms off
lights up yellow 	warning, functionality limited, please disconnect BRConnect from the power connection and reconnect it to restart. If the signal persists please contact support
lights up red 	error BRConnect may be defective, please disconnect BRConnect from the power connection and reconnect it to restart. If the signal persists, please contact support

INSTALLATION

1. Attach the wall mount: Mark the position with a pencil and spirit level, drill 4 holes (size 6mm) and sink 4 dowel pins, mount the wall mount with 4 screws, washers and a screwdriver.



2. Clip BRConnect onto the designated pins of the wall mount: To do this, press evenly on both sides until you hear a click.

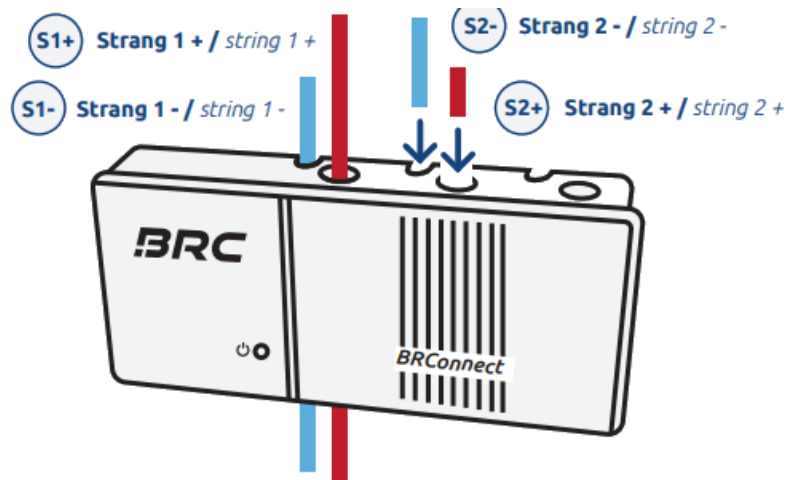


3. String cable through cable bushing: Make sure that the string cable is voltage-free when passing through.

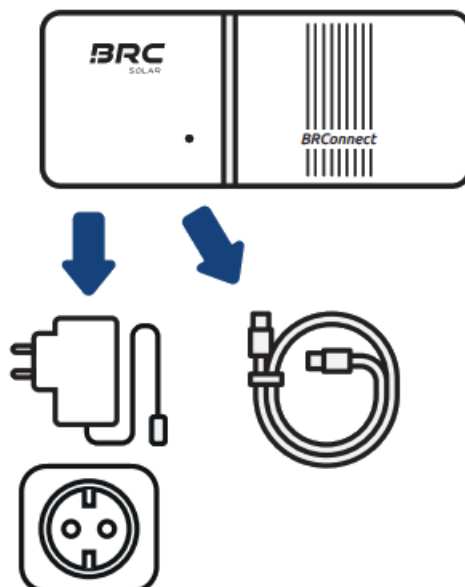
⚠ Pay attention to the correct connection arrangement of the string cables, otherwise errors or inoperability may occur.

Connect the string cable to the inverter with DC-switch off: Pay attention to correct polarity.

Connect the string line to the PV system, then switch on the DC-side of the inverter.

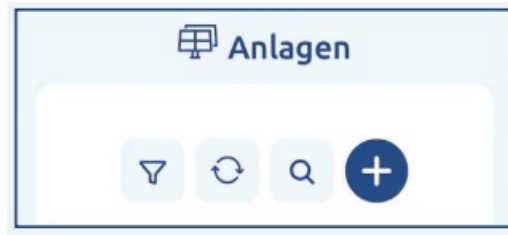


Connect 24V and Ethernet: BRConnect LED lights up briefly blue at an early stage, then flashes slowly blue and waits for Bluetooth connection.



POWER MANAGER APP

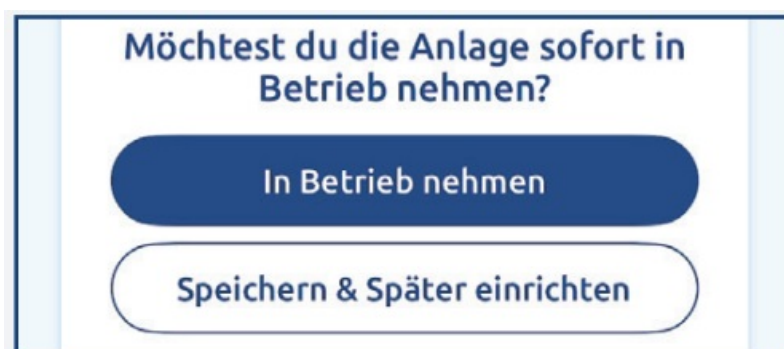
1. Install App: Available on App Store and Play Store
2. Register, log in, and click the plus sign to set up a new plant. Internet connection is required for this.



3. Fill in general information and owner information

4. Enter solar module and inverter data and select whether a battery storage or a wallbox is integrated

5. Select Start configuration to continue the setup, or Save & configure later



The optimizers must already be installed, and the BRConnect must be powered for further setup.

6. BRConnect automatically activates Bluetooth pairing mode after starting, select the correct BRConnect via the app and connect



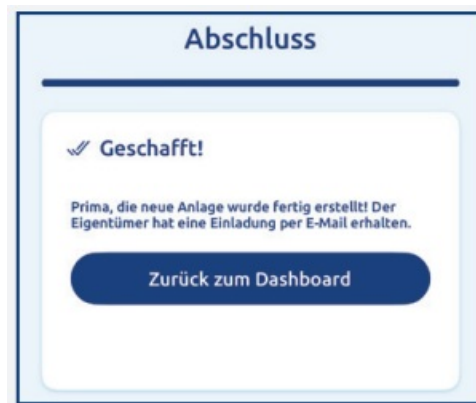
7. Enter how many optimizers (M600-M) are connected per string

8. Connect the BRConnect to the internet via WiFi or Ethernet. The app will then search for the available optimizers

9. Create a string plan using drag & drop and place the optimizers



10. Successful completion of the setup



OPERATION AND MAINTENANCE

- Only clean the BRConnect with a dry, lint-free cloth. Do not use cleaning agents or solvents.
- The BRConnect is maintenance-free; If a problem persists, contact support.

REPLACEMENT AND REPAIR

- The work steps for disassembly the BRConnect must be carried out in the reverse order of assembly (see Chapter 4):
- Switch off the DC-side of the inverter.
- Ensure that the string cables are voltage-free.
- Remove the power supply to disconnect the BRConnect from the circuit.
- Remove the Ethernet cable.
- Release the string cables from the cable bushings.
- Dismantle the BRConnect by evenly removing it straight from the wall mount.
- Repairs may not be carried out.

DISPOSAL

- The transport packaging can be recycled at the local waste disposal facility.
- After use the BRConnect and all associated components are to be disposed of as electronic waste in accordance with the laws applicable in the country

PRODUCT COMPLIANCE AND CONTACT

BRC Solar GmbH, located at Gehrstraße 7 in D-76275 Ettlingen, Germany, declares that the product BRConnect complies with the basic requirements of the national directives if the installation instructions are observed and the product is used as intended. A complete declaration of conformity can be found on the website (www.brc-solar.de) of BRC Solar GmbH.

	
https://brc-solar.de/events/	https://brc-solar.de/kontakt/#newsletter

www.brc-solar.de
SIMPLE.
SMART.
OPTIMIZED.

Documents / Resources

	BRC Solar BRConnect Gateway [pdf] User Guide V1.0.1, BRConnect Gateway, BRConnect, Gateway
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References

- [User Manual](#)

Manuals+, Privacy Policy

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