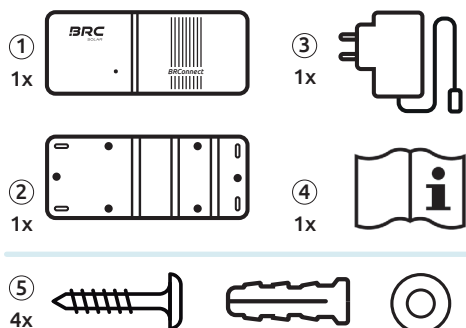


Uputstvo za upotrebu BRConnect Gateway

Instruction manual BRConnect Gateway

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1. SADRŽAJ PAKETA / SCOPE OF DELIVERY



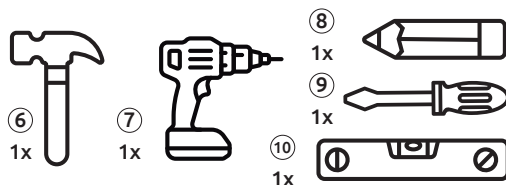
Sadržaj paketa

- ① BRConnect ② Wandhalterung
- ③ Netzteil ④ Bedienungsanleitung
- ⑤ Montagekit

Scope of supply

- ① BRConnect ② Wall mount
- ③ Power supply ④ Instruction manual
- ⑤ Mounting kit

Potrebni alat / Required tools



Operativna oprema / Operating accessories



Potrebni alat i pribor

- ⑥ Hammer ⑦ Bohrmaschine ⑧ Stift
- ⑨ Schraubendreher mit Torx T20 ⑩ Wasserwaage
- ⑪ Ethernetkabel ⑫ 230V Steckdose

Required tools & accessories

- ⑥ Hammer ⑦ Drill ⑧ Pencil
- ⑨ Torx T20 screwdriver ⑩ Spirit level
- ⑪ Ethernet cable ⑫ 230V socket

DRUGE JEZIKE NA NAŠEM VEB-SAJTU/
ADDITIONAL LANGUAGES AVAILABLE ON OUR WEBSITE
WEBSITE WWW.BRC-SOLAR.DE



2. BEZBEDNOSNE NAPOMENE / SAFETY INSTRUCTIONS

ME

A) OPŠTE

- BRConnect smije se koristiti samo u skladu s predviđenom namjenom i specificiranim tehničkim podacima.
- Molimo vas da obratite pažnju na sve upute navedene u priručniku za upotrebu BRC Solar GmbH, kao i na upozorenja na BRConnect uređaju. Upozorenja na BRConnect uređaju moraju uvijek biti jasno vidljiva i ne smiju se uklanjati, mijenjati ili manipulirati.
- Za rad, kao i prilikom instalacije, deinstalacije i održavanja, primjenjivi lokalni zakoni, propisi, smjernice i norme moraju imati prioritet. Sigurnosne upute u priručniku za upotrebu nisu potpune i služe samo kao dopuna.

B) ELEKTRIČNI STRUČNJACI

- Sve radove povezane s proizvodom smiju izvoditi samo kvalificirani električari. Električar mora pritom poštovati nacionalne i regionalne propise.
- Molimo vas da prije instalacije pažljivo pročitate sve upute i slijedite ih. Ako postoje nejasnoće ili trebate detaljnije informacije, nazovite našu servisnu liniju.
- Električni radovi smiju se izvoditi samo uz pridržavanje 5 sigurnosnih pravila elektrotehnike.
- Instalirajte isključivo ispravan BRConnect s kompletnim sadržajem isporuke. Koristite isključivo dodatnu opremu koja je uključena u isporuku – posebno u vezi s napajanjem.
- Nemojte vršiti nikakve modifikacije na BRConnect uređaju.
- Posebno pazite da tijekom montaže kroz BRConnect provodite kablove bez napona kako biste spriječili strujne udare.

C) KRAJNJI KORISNIK

- Ni pod kojim okolnostima nemojte samostalno izvoditi radove na BRConnect uređaju.
- Ne otvarajte kućište.
- Molimo vas da sačuvate priručnik za upotrebu kako bi bio dostupan za sve aktivnosti povezane s proizvodom.

2. BEZBEDNOSNE NAPOMENE / SAFETY INSTRUCTIONS

EN

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, directives 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 are any uncertainties or you need detailed information call our service hotline.
- Electrical work may only be carried out in compliance with the 5 safety rules of electrical engineering.
- Only install an 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

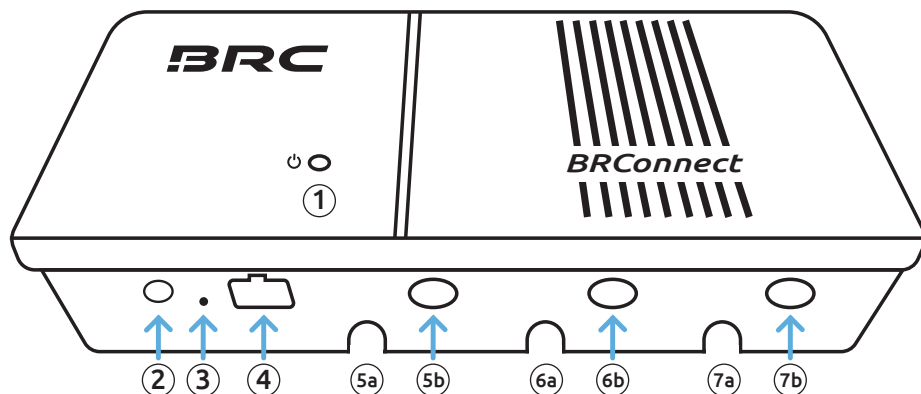
- Under no circumstances should you carry out any work on the BRConnect yourself.
- Do not open the housing.
- Please keep the instruction manual so that it is available for all activities related to the product.

3. PREGLED PROIZVODA / PRODUCT OVERVIEW

A) SASTAV / ASSEMBLY

ME

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- ① LED / LED
- ② 24V DC priključak / 24V DC connection
- ③ Reset dugme / reset button
- ④ LAN Ethernet utičnica / Lan ethernet socket
- ⑤ Provođenje kabela za strujni niz 1 / cable bushing of string 1
- ⑤a S1- Strujni niz - / string -
- ⑤b S1+ Strujni niz + / string +
- ⑥ Provođenje kabela za strujni niz 2 / cable bushing of string 2
- ⑥a S2- Strujni niz - / string -
- ⑥b S2+ Strujni niz + / string +
- ⑦ Provođenje kabela za strujni niz 3 / cable bushing of string 3
- ⑦a S3- Strujni niz - / string -
- ⑦b S3+ Strujni niz + / string +

B) PREDVIĐENA UPOTREBA

ME

- BRConnect je gateway koji u kombinaciji s M600-M i BRC Power Managerom služi za praćenje podataka fotonaponskog sustava na razini modula. Podaci iz M600-M prenose se putem DC kabela pomoću powerline komunikacije do BRConnect uređaja, gdje se obrađuju. Krajnji korisnik može pregledati ove podatke putem BRC Power Manager aplikacije, što omogućava nadzor fotonaponskog sustava.
- Za pravilnu upotrebu proizvoda potrebna je fiksna instalacija koju treba izvršiti kvalificirani električar, prema objašnjenjima u točki 4.
- Prilikom postavljanja BRConnect uređaja obavezno se pridržavajte specificiranih tehničkih podataka. Posebno obratite pažnju na sljedeće upute:
 - BRConnect ima stupanj zaštite IP40 i stoga je namijenjen za korištenje u unutarnjim prostorima. Molimo vas da uređaj držite podalje od tekućina, vlage, izvora topline i izravne sunčeve svjetlosti.
 - Proizvod je dizajniran za rad pri okolnim temperaturama od -20°C do +55°C.
 - Proizvod je odobren za rad na visinama do 2.000 metara nadmorske visine.
- BRConnect ima Ethernet i WLAN sučelja kako bi omogućio dostupnost podataka BRC Power Manageru.

WLAN-Standard	WiFi 4; 802.11n
WLAN-Frekvencijski opseg	2,4 GHz

- Ako se proizvod koristi na način koji odstupa od ovdje objašnjene upotrebe, smatra se da se koristi nepropisno. Proizvođač ne preuzima odgovornost za štete nastale zbog nepravilne upotrebe. Primjenjuju se odredbe ograničenog jamstva proizvoda (<https://brc-solar.de/downloads/>).

B) INTENDED USE

EN

- The BRConnect is a gateway which, in combination with the M600-M and the BRC Power Manager, is used for data monitoring of the photovoltaic system at module level. Data from the M600-M is communicated to the BRConnect using powerline communication via DC cables and processed there. The end user can view this data via the BRC Power Manager App, making it possible to monitor the photovoltaic system.
- 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 is rated 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 WiFi interfaces to provide the data to the BRC Power Manager.

WiFi standard	WiFi 4; 802.11n
WiFi frequency range	2.4 GHz

- If the use deviates from the use explained here, this is considered improper use. 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 Signal / LED signal

Objašnjenje / Explanation

Nema svjetla / no light



BRConnect nema napajanje ili je neispravan, **provjerite napajanje**. Ako problem i dalje postoji, obratite se korisničkoj podršci. /
*BRConnect has no power supply or is defective, check **power supply**. Otherwise contact support hotline.*

Svjetli plavo / lights up blue



Odmah nakon pokretanja vidljivo (oko 7-8 sekundi), zatim prelazi u Bluetooth način povezivanja i nakon uspješnog postavljanja putem Power Manager aplikacije ponovno se prikazuje kao **normalno stanje**. /
*Visible immediately after starting (approx. 7-8 sec), then switches to Bluetooth connection mode and can be seen again as **normal state** after successful setup via Power Manager App.*

Polako treperi plavo / slowly flashes blue



Čeka se Bluetooth veza s mobitelom/tabletom. Otvorite Power Manager aplikaciju i slijedite upute u aplikaciji (pogledajte stranicu 8) do koraka 6. Sada započinje pretraga za BRConnect uređajem = frekvencija treptanja je 1 sekunda upaljeno, 1 sekunda ugašeno. /
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.

Svjetli zeleno / lights up green



Bluetooth veza s mobitelom/tabletom je uspostavljena. Postavite informacije o strujnom nizu u Power Manager aplikaciji. Unesite IP adresu i postavke za WLAN putem Power Manager aplikacije ili priključite Ethernet kabel. /
Bluetooth connection with mobile phone/tablet established. Set string information in Power Manager App. Enter the IP address and WiFi settings via the Power Manager App or plug in the Ethernet cable.

Polako treperi zeleno / slowly flashes green



Uspostavlja se veza s lokalnom mrežom (nije potrebna nikakva radnja, ako stanje potraje, provjerite vezu s lokalnom mrežom) = frekvencija treptanja je 1 sekunda upaljeno, 1 sekunda ugašeno. /
Establishing connection to local network (no action necessary, check local network connection if the status persists) = flashing frequency 1 second on, 1 second off.

Brzo treperi zeleno / quickly flashes green



Mrežna veza je aktivna, uspostavlja se veza s cloudom (nije potrebna nikakva radnja, ako stanje potraje, provjerite internetsku vezu) = frekvencija treptanja je 200 ms upaljeno, 200 ms ugašeno. /
Network connection active, establishing connection to cloud (no action necessary, check internet connection if the status persists) = flashing frequency 200ms on, 200ms off.

Svjetli žuto / lights up yellow



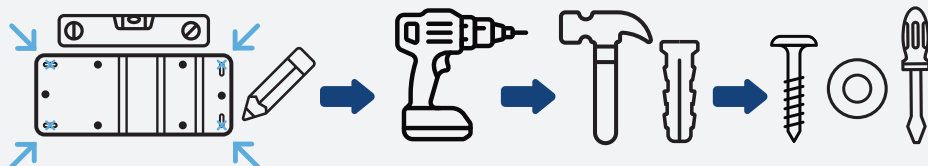
Upozorenje, funkcionalnost je ograničena, molimo vas da odvojite BRConnect od napajanja i ponovno ga priključite za ponovni početak. Ako signal i dalje ostane, obratite se korisničkoj podršci. /
Warning, functionality limited, please disconnect BRConnect from the power supply and reconnect it to restart. If the signal persists, please contact support.

Svjetli crveno / lights up red

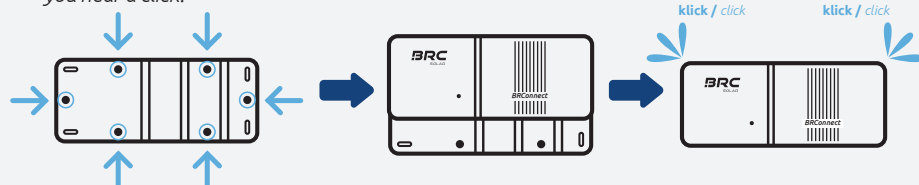


Greška, BRConnect je možda neispravan. Molimo vas da odvojite BRConnect od napajanja i ponovno ga priključite za ponovni početak. Ako signal i dalje ostane, obratite se korisničkoj podršci. /
Error, BRConnect may be defective. Please disconnect BRConnect from the power supply and reconnect it to restart. If the signal persists, please contact support.

- 1 Postavljanje zidnog nosača:** Označite položaj olovkom i libelom, izbušite 4 rupe (veličine 6 mm) i umetnite 4 tiple, montirajte zidni nosač pomoću 4 vijka, podložnih pločica i odvijača.
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 Postavite BRConnect na predviđene pinove zidnog nosača:** Pritisnite ravnomjerno s obje strane dok ne čujete klik.
Clip BRConnect onto the designated pins of the wall mount: To do this, press evenly on both sides until you hear a click.



- 3 Provucite strujni kabel kroz provod za kabele:** Pazite da strujni kabel bude bez napona prilikom provlačenja.

Obratite pažnju na ispravan raspored priključaka strujnog kabela, inače može doći do grešaka ili nefunkcionalnosti.

Priključite strujni kabel na inverter s odvojenim DC prekidačem: Obratite pažnju na ispravnu polarizaciju.

Spojite strujni kabel s fotonaponskim sustavom, a zatim uključite inverter na DC strani.

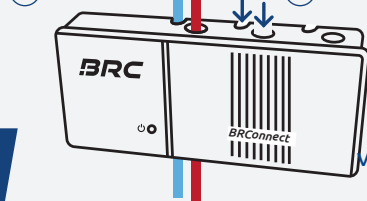
Pass string cable through cable bushing: Make sure that the string cable is voltage-free when passing through.

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.

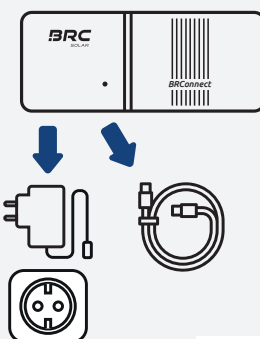
Connect the string cable to the PV system, then switch on the DC-side of the inverter.

N1+ Niz 1 + / string 1 +
 N1- Niz 1 - / string 1 -
 N2+ Niz 2 + / string 2 +
 N2- Niz 2 - / string 2 -



- 4 Poveži 24V i Ethernet kabl:** BRConnect LED kratkotrajno zasvijetli plavo, zatim polako treperi plavo i čeka Bluetooth vezu

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



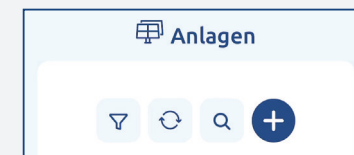
Video uputstvo za montažu i podešavanje aplikacije
 Video instructions for assembly and app setup



- 1 Aplikaciju instaliraj:** Dostupna je preko App Store-a i Play Store-a. / **Install App:** Available on App Store and Play Store.

- 2 Registriraj se, prijavi se i klikni** **+** na opciju za podešavanje **novog postrojenja; za to je potrebna internet konekcija.** / **Register, log in, and click the plus symbol to set up a new plant.** Internet connection is required for this.

- 3 Popuni opšte podatke i informacije o vlasniku.** / **Fill in general information and owner information.**



Allgemeine Angaben Anlagenname* Alias Name* Straße*	Eigentümer hat der Datenhinterlegung zugestimmt* Eigentümer der Anlage Kauftragsnummer E-Mail
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- 4 Unesi podatke o solarnom modulu i inverteru i odaberi da li je integrisan baterijski sistem ili Wallbox.** / **Enter solar module and inverter data and select whether a battery storage or a wallbox is integrated.**

Komponenten Solarmodul Hersteller* Typ* Wechselrichter Hersteller* Typ*	Batteriespeicher Ist ein Batteriespeicher vorhanden? ☐ Ja ☐ Nein Hersteller* Typ* Kapazität in kWh Wallbox Ist eine Wallbox vorhanden? ☐ Ja ☐ Nein
--	--

- 5 Odaberite „Puštanje u rad“ da biste nastavili sa podešavanjem, ili „Sačuvaj i kasnije podesi“.** / **Select Start configuration to continue the setup, or Save & configure later.**

Möchtest du die Anlage sofort in Betrieb nehmen?

In Betrieb nehmen

Speichern & Später einrichten

- Optimizjeri moraju biti već ugrađeni za dalju instalaciju, a BRConnect mora biti priključen na struju.** / **The optimizers must already be installed, and the BRConnect must be powered for further setup.**

- 6 BRConnect automatski čeka na Bluetooth vezu nakon pokretanja. Preko aplikacije izaberi BRConnect i poveži se.** / **BRConnect automatically waits for Bluetooth connection after starting. Select the BRConnect via the app and connect.**

BRConnect verbinden Suche nach BRConnect läuft Stelle sicher, dass dein BRConnect mit Strom versorgt wird und die LED blau blinkt (Bluetooth-Kopplungsmodus ist aktiviert). Wenn die LED nicht blau blinkt, stecke dein BRConnect neu (Netzteil aus- und wieder einstecken, damit dein BRConnect wieder den Bluetooth-Kopplungsmodus aktiviert.	BRConnect gefunden Fast geschafft: Verbindung läuft... BRConnect: 3F48TPYXFW41US Verbinden
--	---

- 7 Navedite koliko je **optimajzera (M600-M) povezano po strangu.** /
Enter how many optimizers (M600-M) are connected per string.

- 8 Poveži BRConnect sa internetom preko **WLAN-a ili Ethernet-a**, aplikacija sada traži **dostupne optimajzere.** /
Connect the BRConnect to the internet via WiFi or Ethernet. The app will then search for the available optimizers.

- 9 Kreiraj plan stranga pomoću funkcije „prevuci i pusti“ (**Drag & Drop**) i **postavi optimajzere.** /
Create a string plan using drag & drop and place the optimizers.

- 10 Uspješno **završeno podešavanje.** /
Successful completion of the setup.

6. RAD I ODRŽAVANJE

- Očistite BRConnect isključivo suvom krpom koja ne ostavlja vlakna. Nemojte koristiti sredstva za čišćenje ili rastvarače.
- BRConnect ne zahtijeva održavanje; u slučaju stalnih smetnji obratite se podršci.

7. ZAMENA I POPRAVKA

- Radne korake demontaže BRConnect-a treba obaviti obrnutim redosledom u odnosu na montažu (pogledajte poglavlje 4):
 - Isključite inverter na DC strani.
 - Obezbijedite da provučeni strujni vodovi budu bez napona.
 - Uklonite napajanje da biste isključili BRConnect iz strujnog kruga.
 - Uklonite Ethernet kabl.
 - Otpustite strujne vodove iz kablovskih uvodnica.
 - Demontirajte BRConnect tako što ćete ga ravnomjerno i pravo odvojiti od zidne ploče.
- Popravka se ne smije sprovoditi.

8. ODLAGANJE

- Transportno pakovanje može se predati lokalnoj službi za odlaganje otpada na reciklažu.
- BRConnect, kao i sve pripadajuće komponente, nakon upotrebe treba zbrinuti kao elektronski otpad u skladu sa zakonima koji važe u zemlji.

9. PROIZVODNA USKLADENOST I KONTAKT

BRC Solar GmbH sa sjedištem u Gehrstraße 7, D-76275 Ettlingen izjavljuje da proizvod BRConnect, uz poštovanje uputstava za instalaciju i pravilnu upotrebu, ispunjava osnovne zahtjeve nacionalnih smjernica. Potpunu izjavu o usklađenosti možete pronaći na web stranici BRC Solar GmbH (www.brc-solar.de).

6. 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.

7. REPLACEMENT AND REPAIR

- The steps for dismantling the BRConnect must be carried out in the reverse order of installation (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.
 - Dismount the BRConnect by evenly removing it straight from the wall mount.
- Repairs must not be carried out.

8. DISPOSAL

- The transport packaging can be recycled under local waste disposal.
- 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.

9. 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.

ME

EN



Power Manager App



*Power
Manager App
Apple App Store*



*Power
Manager App
Google Play Store*

Uputstvo za upotrebu BRConnect Gateway

*Instruction manual
BRConnect Gateway*



*besplatni
webinar*



*Prijava na
newsletter*

www.brc-solar.de

*SIMPLE.
SMART.
OPTIMIZED.*