



Installation Manual

BlueBird Power BlueSky S



Technical Details

Dimensions (mm)

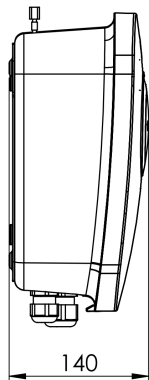
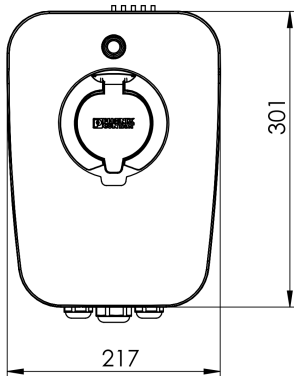
301 (h) x 217 (w) x 140 (d)

Weight

1.8 kg

Versions

Socket
Tethered



Safety

Protection

Water and dust protected (IP54)
Impact resistant (IK10)
UV resistant (F1)
Anti flammable (V0)
Integrated RDC-DD (6 mA DC)
Integrated PEN Fault detection (UK)
Insulation class I
Overvoltage Category class III

Complies with regulations

IEC 61851-1
IEC 62955
Radio Equipment Directive
RoHS
EV (smart charge points) regulations

Operating conditions

Nominal Power

1 phase: 7.4 kW (32A)
3 phase: 11 kW (16A)

Temperature Range

-30 °C to +50 °C

Grid configurations

TN/TT/IT
230/400 V AC (+/- 10%)
Grid frequency: 50 Hz

Connectivity & interfaces

Internet

Wi-Fi (2.4 GHz)
Ethernet

Interfaces

MQTT
OCPP emulator
BlueBird Mobile App
External API

Chef's signature

Integrated energy meter
(MID B grade)
P1 dongle connected
Robust and resilient

Bidirectional ready
Dynamic phase switching
DIY installation



BlueBird Power BlueSky S Charger – Installation Manual

1. Introduction

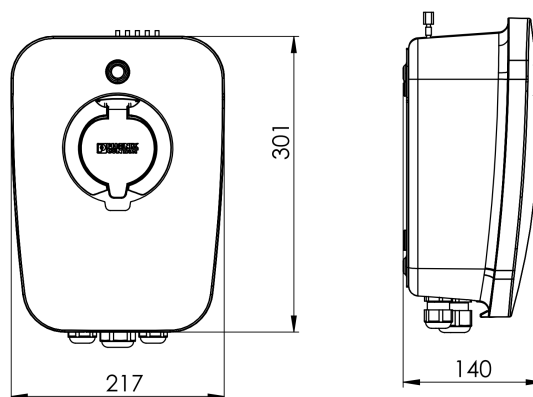
Welcome to the installation guide for the BlueBird Power BlueSky S. This manual provides step-by-step instructions to ensure a safe and professional installation. Please read carefully before proceeding.

2. Safety Information

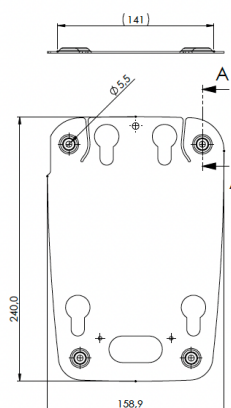
- Before installing this product, it's important to read the following safety instructions. Failure to follow and apply all the instructions and procedures covered in this manual will invalidate the guarantee and cause BlueBird Power BlueSky S Charger and direct partners to waive all liability and claims for compensation. This equipment must only be installed, repaired, and maintained by qualified personnel. Repairs must be carried out by BlueBird Power.
- Adjustments to the metering cabinet must always be performed by a certified electrician. In some cases the installation of the charger can be done by a non-certified installer. But make sure to always be in compliance with local laws. When in doubt, check with your local installer.
- Disconnect power of the relevant group before starting any installation.
- Make sure nobody can reconnect the power, without you noticing. For instance by using a lock or a warning label
- Make sure a RCD type A is installed in the metering cabinet. There is already DC Detect integrated in the charger, so a (more expensive) RCD type B is not required.

3. Package Contents

- BlueBird Power BlueSky S Charger



- Wall mounting bracket



- Bolts (6x Torx 15)
- Screws (4x 4.5 x 40 mm*)
- 4 plugs in case of installing on a brick wall

*Depending on mounting surface use the right screws and use plugs for walls

3. Required Tools and screws

- Drilling machine to attach the mount plate to the wall
- Screw driver: Torx 15
- Cable stripper (optionally)
- Pencil to mark drill holes (optionally)

4. Technical Specifications

<u>Feature</u>	<u>Specification</u>
Input Voltage	230V AC $\pm 10\%$
Frequency	50/60 Hz
Max Output Current	1 phase: 32A 3 phases: 16A
Charging Connector	Type 2
Communication	Wi-Fi, Ethernet
Operating Temperature	-30°C to +50°C
Protection Class	IP54

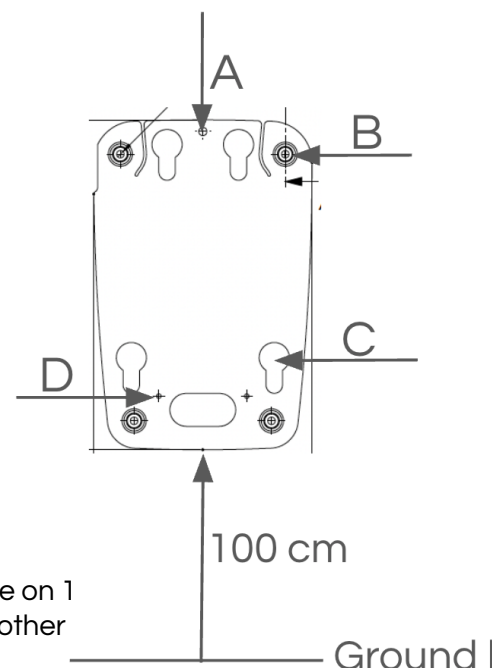


5. Installation Steps

5.1 Determine the preferred location

- Use a solid wall structure.
- We recommend a height measured from the ground of **100 cm** to the bottom of the mount plate
- Use the hole in **point A** to pre-mount the mount plate and use it to make it waterlevel. You can do this with a small temporary screw or nail.

Or, (pre)drill one hole as described in 5.2. Attach the mount plate on 1 point. Make sure the mountplate is waterlevel and (pre)drill the other 3 holes using the mountplate as a drilling mould.



5.2 Install the mount plate and the charger

- 1) Mark the drilling holes with a pencil or pre drill them through the **4** round holes of the mountplate as **point B**. For predrilling we recommend a drill bit of **5 mm** diameter to minimise drilling inaccuracies..
- 2) a) **Brick wall**: Remove the mountplate, drill the holes with a 6 mm drill bit. We recommend 45 mm depth. Insert the plugs. Remove the temporary nail/screw from **point A**. Put the mountplate back, and drill the screws into the plugs.

b) **Wooden wall**: Drill the screws directly through the mountplate into the wall. Don't drill them to tight, as there needs to be some space between the mountplate and the wood for the mushrooms (see next step) to fit.
- 3) Shove the metal mushrooms on the back side of the charger in the 4 holes as **point C**. To mount, start high and **push downward** until you feel a click. In case you want to dismount, **pull upward**
- 4) Secure the charger to the mountplate via the 2 bolts via **point D**

5.3 ⚡ Electrical Connection

- Pull the power cable through the middle cable gland including the outside layer.
- Tighten the cable gland firmly
- Pull the cable straight and cut it at 10 cm measured from the inside of the cable gland.
- Bend the cable towards you and strip the outside layer. Make sure you keep roughly 1 cm of cable with the outside layer inside the charger (see figure 1)*
- Strip 1 cm of the 3 or 5 inner cores.
- Insert the cables into the grid connectors. Make sure you push them firmly into the connectors before you close the levers. This requires some force, do not be afraid that this force breaks something, it is designed in a robust way.
- Insert in the same order as displayed
 - 3 phases: From left to right:
Blue (N), Brown (L1), Black (L2), Grey (L3), Yellow/Green (Earth)
 - 1 phase grid in a 3 phase charger : From left to right
Blue (N), Brown (L1), nothing, nothing, Yellow/Green (Earth)
 - 1 phase grid in a 1 phase charger: From left to right:
Blue (N), Brown (L1), Yellow/Green (Earth)
- Make sure the cables are inserted firmly. When the levers are closed, you can check this by pulling the cables one by one. They should not come out of the connectors. If they do, open the levers (again with some force), push the cable more firmly into the connector, close the lever and try again.

*If you prefer more space while stripping the cable, you could mark the beginning and ending of the stripping area with a pencil or knife. Then take the cable out of the gland, strip it and pull it through the cable gland again. Tighten the cable gland and continue.

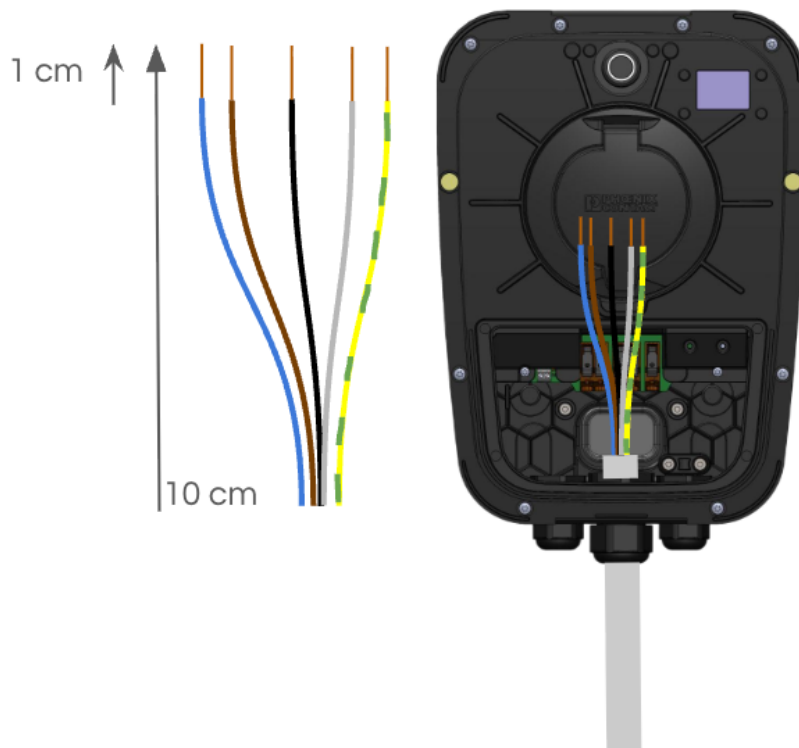


Figure 1: A representation of the cable length and the correct order of the wires

5.4 Enclosure

- Close the installation lid, with the 4 bolts
- Mount the brand cover. Push first downward at the top and then push on the bottom



6. ⚡ Switch Power On

- Switch the power back on in the metering cabinet
 - LED should be solid white.
 - You can already do a test charge on your vehicle in safe mode on 6A to check if all works as expected (LED should become blue)
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7. 🛠️ Configure your charger and bring it online

- Open your [BlueBird Power app](#) or download it via the QR code
- Follow the steps after the installation screens
- Hold the LED button for approximately 5 seconds until it starts pulsing white
- Your BlueBird Power app will ask to connect to the network BBP Charger. Connect to it.
- In case of a successful local connection the LED becomes solid purple
- Connect the charger to your WiFi network, by selecting the correct network from the list displayed on the app and enter your password.
When using Ethernet, scroll down to the network called Ethernet.
- If the LED becomes pulsing purple, it is successfully connected. If not, check the error message in the BlueBird Power app and try again later



8. Troubleshooting

<u>Problem</u>	<u>Possible Cause</u>	<u>Solution</u>
No power	Group is switched down in metering cabinet Wiring is not connected properly on the charger	Switch group up Switch group down in metering cabinet. Redo wiring in the charger according to page 9. When finished switch on the power in the metering cabinet again
App cannot find charger	Wi-Fi on phone is disabled Charger is not in local Wi-Fi/ Hotspot mode.	Enable Wi-Fi on your phone Hold the LED button on the charger for 5 seconds until its colour is pulsing white
Charger cannot connect to home WiFi network	Wi-Fi credentials are incorrect Wi-Fi signal strength is not strong enough	Enter correct Wi-Fi credentials Move your router or install a Wi-Fi repeater
Charging session does not start	Plug and Charge is disabled and no session is started via the app The car blocks charging. The charger blocks charging because of an optimised schedule	Press the Start Session button in the BlueBird Power app Check your car dashboard and/or app if there is a charging schedule blocking the charging Check the BlueBird Power app if there is an optimised schedule active. If so and this is not desired, change the schedule or override in manual mode

9. Support & Warranty

For help, reach out to us:

- Email: info@bluebirdpower.com
- Web: www.bluebirdpower.com

