

Hypervolt Home 2.0

7kW AC



Installation Manual

English

HYPERVOLT



designed and manufactured in the United Kingdom

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Introduction

This guide is intended for use by competent electrical installers to explain the basic requirements and options to be considered when installing the Hypervolt Home 2.0 electric vehicle charging point.

The Hypervolt Home is designed for both indoors and outdoors installations.

The Hypervolt Home provides advanced safety systems we have built in to the unit in order to ensure its safe usage. This guidance provides information to assist when installing the Hypervolt Home 2.0 unit.

Safety Information

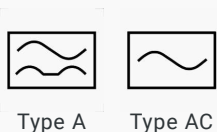


Warning! The Hypervolt Home 2.0 is manufactured to be safe and without risk provided they are professionally installed, used and maintained in accordance with the manufacturer's instructions and recommendations and installed by competent electrical installers in accordance with national and local regulations and legislation applicable at the time of installation.

The Hypervolt Home is designed to only be connected to a dedicated AC supply.

The property must comply with minimum BS7671 standards before installation commences.

The Hypervolt Home comes as standard with internal 6mA DC leakage protection. The installation must include a Type A RCD at the distribution panel.



Important note

A DC leakage fault in the vehicle will render ineffective a type "AC" RCD. You should never wire the Hypervolt into an existing upstream Type "AC" RCD.



Before the Installation

1. Positioning the Hypervolt Home

We advise that this should be the first action to be completed on site. The installer should consult the customer and establish their preferred installation location. This should take into consideration the cable length (distance to vehicle being charged), risk of vehicle impact and obstruction of access.

Keep in mind that the customer may change their mind with regards to the charger location once into place and it is desirable this happens prior to routing any of the cables.

The Hypervolt Home 2.0 can be fitted indoors or outdoors.

Recommended Installation Height

500-1200mm (according to BS7671:2018 and BS8300:2018)

2. Preparing the Hypervolt Unit

In order to install the Hypervolt unit you will need access to the main wiring terminal inside the device. Place the unit on a secure surface and using a T20 Security Torx screwdriver, remove the 4 off screws (2 on each side) which secure the front cover in place.

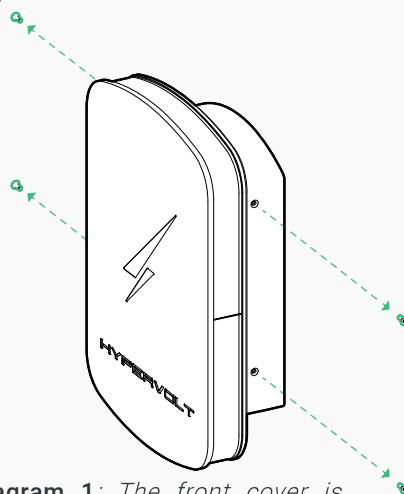


Diagram 1: The front cover is secured by 4 x M4 T20 Torx

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Before the Installation

Remove the top cover. Simply slide it away from the rest of the unit. There should be almost no resistance in doing so.

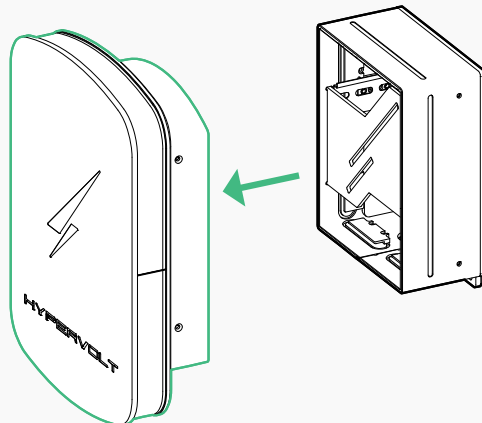


Diagram 2: Slide outwards to remove the top cover.

Place the top cover and its screws somewhere safe.

Next, carefully disconnect the connector at the back of the LED panel, pop out the LED assembly from its side slots, and place it somewhere safe.

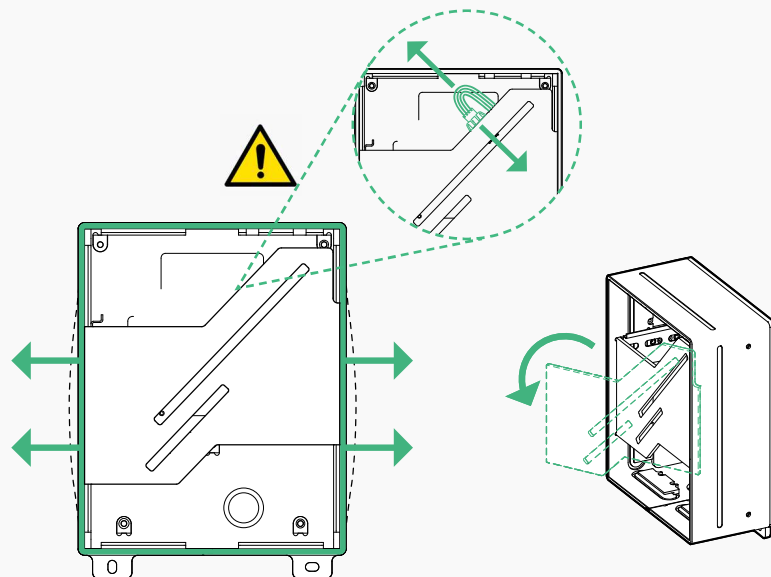


Diagram 3: Disconnect the LED panel.

Diagram 4: Pop out the LED panel.

The unit is now ready to be mounted in the desired location.

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The Installation Procedure

1. Securing the Hypervolt on the Wall

Using the drilling template and integrated spirit level provided in your kit, drill the holes to an appropriate length and diameter suitable for the fixing you are going to use.

Screw in the top 2 mounting screws into their holes. Leave approximately 7-8mm from the surface of the wall. Refer to **Diagram 5**.

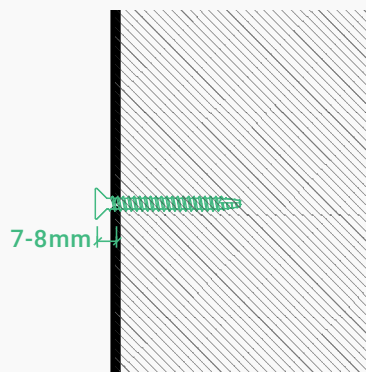
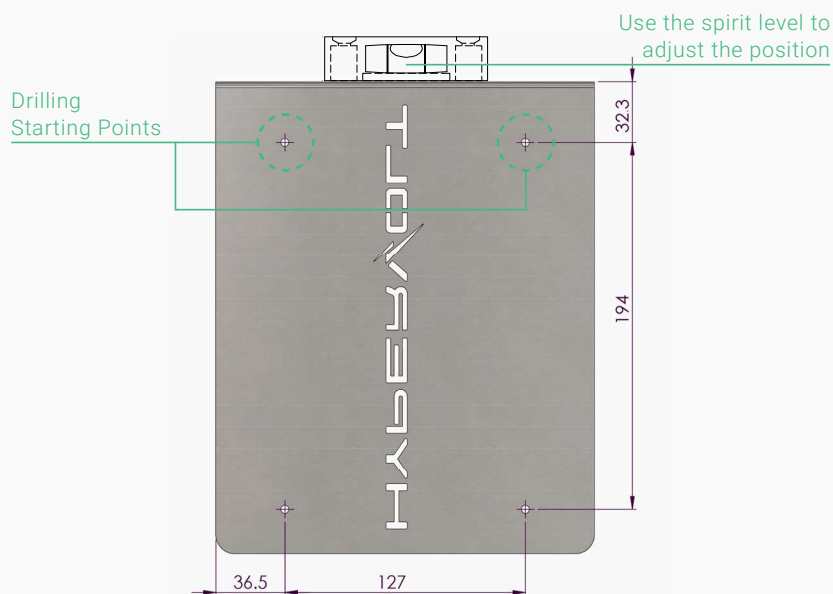


Diagram 5

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Next, position the Hypervolt and hang it onto the 2 mounting points. Double check that the bottom 2 mounting holes are well aligned and insert the last 2 screws. The unit should now be safely in place.

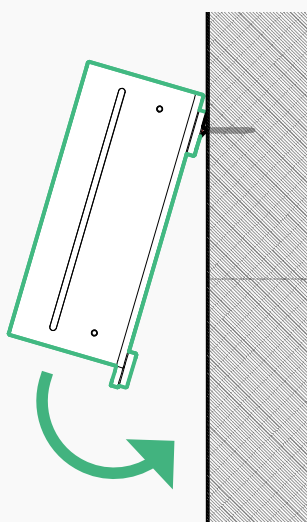


Diagram 6

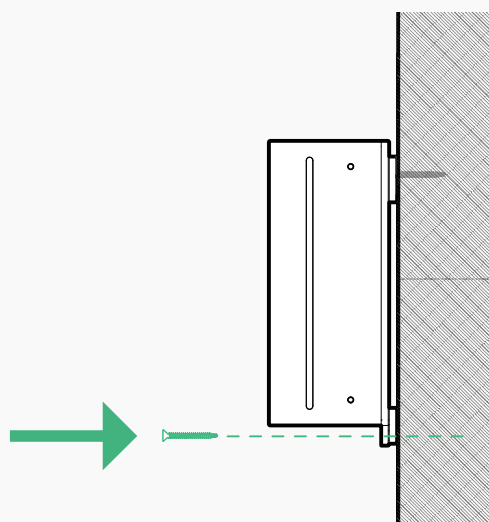


Diagram 7

You do not need to fit the top cover back on yet, as you will need access to the wiring terminals later on. However, you may wish to place the cover on for protecting the insides of the charger from dust and other debris during the rest of the installation.

At this stage, confirm with the customer they are happy with the location and height of the unit. Make sure you do this prior to routing any cables as customers may change their mind!

The Installation Procedure

5. Electrical Wiring

The next step is to complete the electrical connections between the distribution panel and the Hypervolt Home device. **Diagram 8** is provided as a reference for a typical installation diagram for the charging station. The installation should be done in accordance with the applicable local electrical regulations.

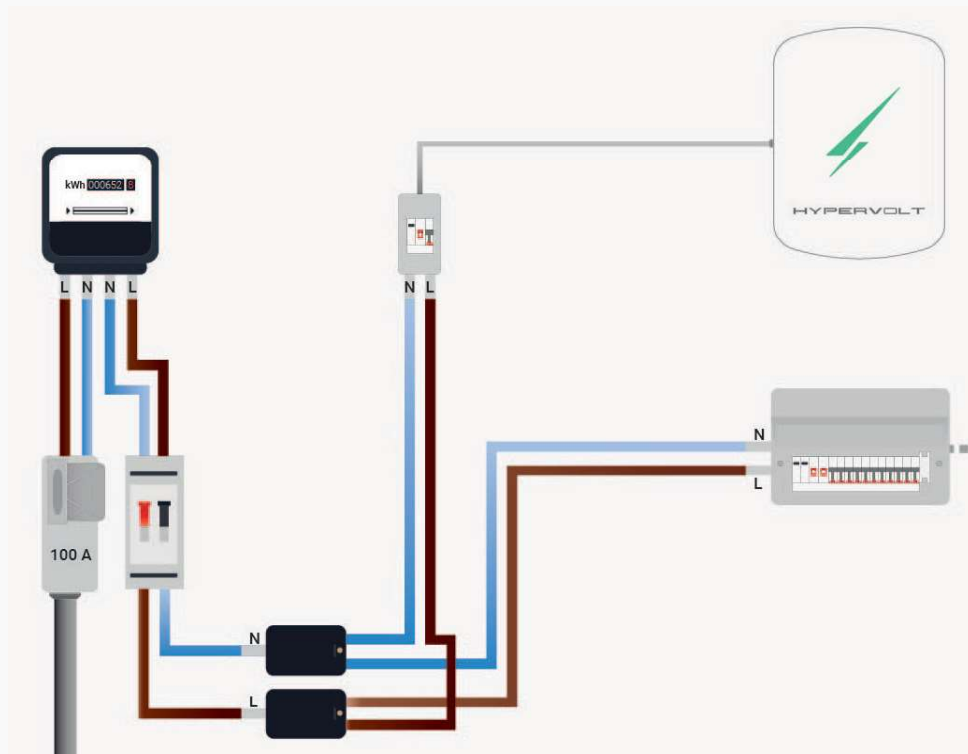


Diagram 8

The Installation Procedure

Next, proceed to make the electrical connections inside the Hypervolt device. Refer to Diagram 9 to identify the cable entry location and the power input connector inside the unit. All of the cables that are to be connected into the supply terminals should have their insulation stripped back 12-15mm and have suitable ferrules crimped over in order to ensure the best electrical connection possible.

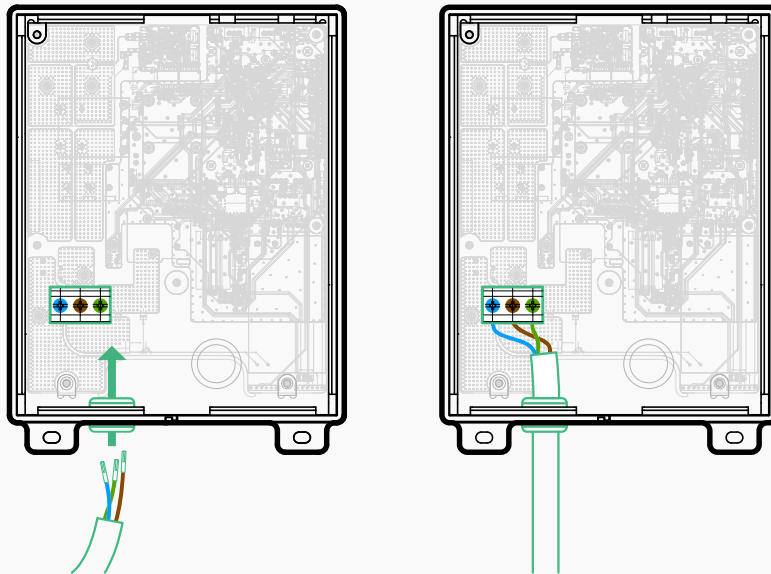


Diagram 9

Make sure you perform an adequate pull test at the unit electrical terminal to confirm the connection is acceptable. The Hypervolt Home 2.0 incorporates an automatic thermal based detection mechanism for poor power input connections.

You should perform all required electrical tests at this stage.

The Installation Procedure

6. Finishing Off

Insert the LED panel back into its location. Ensure it clicks properly into place and it is not miss-aligned. Lastly, place the top cover back onto the unit and secure using the 4 off screws. Take care to avoid cross-threading during this process, as the water-tightness of the unit and its seals rely on these 4 screws being into place.

