



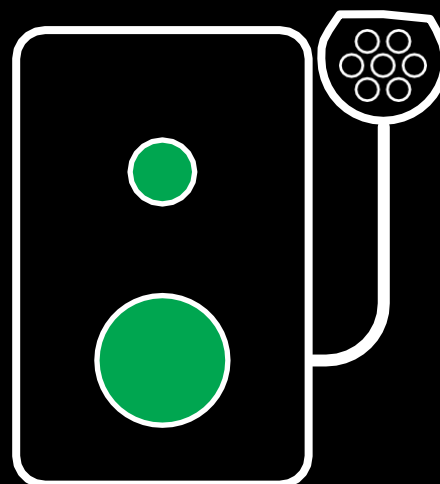
EVone

Installation Instructions

Welcome to the EVone charger, perfect for both home and business use. This easy-to-install solution is ideal for fully electric and plug-in hybrid vehicles.

Fully compliant with UK and EU regulations, it ensures safe and efficient charging .

We recommend that the ESi EVone be installed by a qualified installer or electrician to ensure optimal performance and safety. Upon professional installation, a comprehensive three-year warranty will apply.



SECURITY FEATURES:

- Option to keep cable locked in the socket version, so that only you can unlock the cable from the app.
- Option to disable local touch button or RFID reader, only allowing charging at scheduled hours or from the app.

CIRCUIT BREAKER PROTECTION

A suitable 30mA type A RCD device is required upstream of the EV charger.

GROUND FAULT CIRCUIT INTERRUPTION

The EV charger has integrated PEN earth fault protection and therefore no earth rod is required.

FEATURES:

- 7.4kW Mode 3 fast charging
- Single phase - 230V 50/60 Hz
- Smart control with Wi-Fi or Ethernet
- Built-in PEN fault protection - no earth rod required
- 6mA DC Integrated protection for DC leakage
- 30mA AC Integrated protection for AC leakage
- Dynamic load balancing function
- Maximum incoming cable 16mm²
- IP54 ingress protection
- 4 x Configurable Output settings 13A, 16A, 24A, 32A

INSTALLERS :

FREE Registration to become an Approved Installer

<https://www.esicontrols.co.uk/esigo-1/esi-go-approved-installers/>

This is required to fully commission a charger

CHECKLISTS

PRE INSTALLATION

- Please read and follow all safety instructions in this manual before installing or operating the ESI EV-One. Failure to do so may result in electric shock, fire, serious injury, death, inefficient operation, damage to the unit, or invalidation of the manufacturer's warranty.
- The device must only be used in strict accordance with this manual. Retain this document for future reference, maintenance, and repair.
- Charger must be installed in accordance with the extant wiring regulations (BS 7671).
- We strongly recommend that a competent person, such as a qualified electrician, installs and/or inspects the unit to ensure safety and verify that the electrical supply is adequate before use.
- The installation must comply with the Wiring Regulations and the applicable Code of Practice for Electric Vehicle Charging Equipment in your territory.
- Handle the ESI EV-One with care. Do not expose any part of the unit or cable to excessive forces, impact or sharp objects.
- To maintain the unit's IP rating, ensure that all supplied grommets and plugs are correctly fitted. Verify that all cables are installed using appropriate cable glands.
- RCD. A suitable 30 mA Type A RCD **must** be installed upstream of the EV charger prior to installation.

POST INSTALLATION

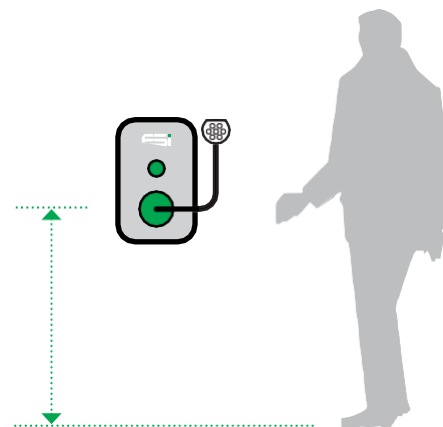
Before leaving the site:

- Verify that the Electric Vehicle is charging via the BOOST function. If the vehicle is not available, the installer should use an emulator to ensure all functionality tests are successfully passed.
- Ensure you have registered and commissioned the EV-One with ESI Controls before handing over to Owner.
- Provide relevant User Handbook to Owner – this will provide details to the owner on how to take charge of the EV Charger.

INSTALLATION

LOCATING THE EV CHARGER

Install the EV Charger in a location that allows the charging cable to reach the vehicle charge port without putting strain on the cable. The tethered cable length is 5m, therefore a recommended distance would be no greater than 4m from the car charging point. Also allow for the location of the RCD.

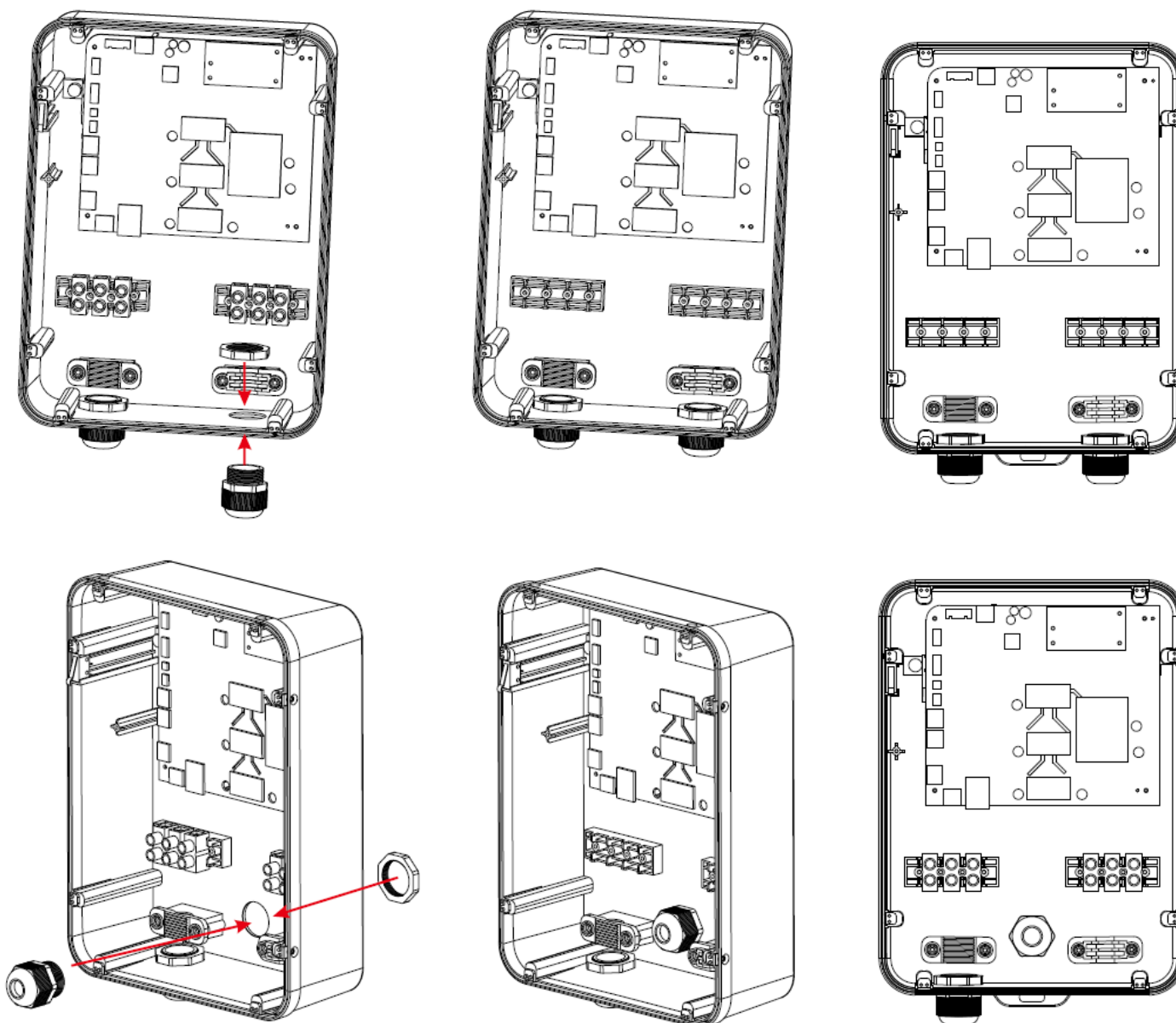


CHOOSING A HEIGHT TO FIX THE CHARGER TO THE WALL

The recommended height is 1.2metres from the ground to the centre of the cable socket.

STEP 1: CABLE ENTRY

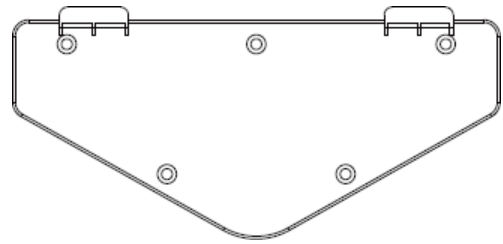
The main power cable can be connected through either the underside or the rear of the charger and is secured by a cable gland (see step 4)



STEP 2: WALL BRACKET FIXING

Once you have established the correct height, use the wall bracket to mark five positions on the wall with a suitable tool.

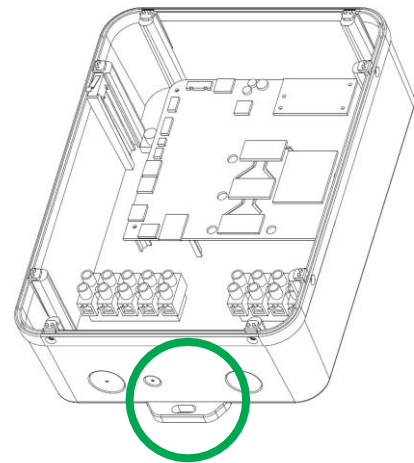
Drill five holes and fix the bracket to the wall with the screws provided, or screws suitable for the application.



STEP 3: MOUNTING EV CHARGER TO WALL BRACKET

Mount the EV charger to the wall bracket by hooking it to the wall bracket from the top, then pushing it down.

Once the charger is securely supported by the wall bracket, use the screw provided, or a screw suitable for the application, to secure the bottom of the charger to the wall.

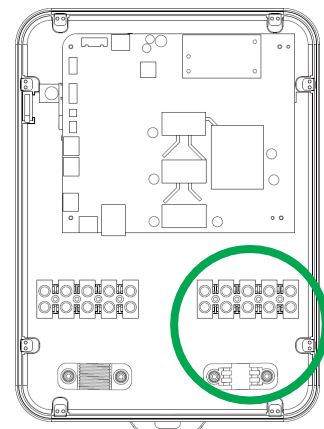


STEP 4: MAINS CABLE CONNECTION

The EV charger is supplied with a mains M25 nylon cable gland.

Note: Ensure that the gland is suitable for the mains cable used, otherwise you may need to change the gland. Insert the cable through right hand entry cable gland and tighten the glanding nut. Strip back the cable and terminate cables into right hand terminal blocks. Use the cable clamp on the inside to help secure the cable.

Note: Care must be taken when terminating cables. Ensure conductors are terminated into their corresponding terminals before turning on the power.

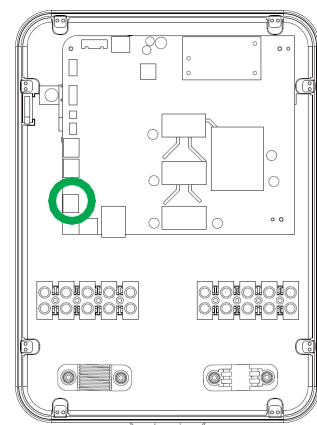


STEP 5: INSTALL THE CT CLAMP

(to support Dynamic Load Management DLM)

Install the CT Clamp at the house input cable, on the same phase as the EV charger, and connect the CT clamp wires to the "Ext current det" connector.

Note: The software will always correct the CT clamp readings. You don't need to worry about the direction of the clamp or which way you connect the wires in the "Ext current det" connector.

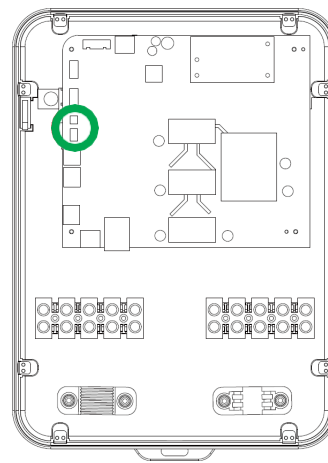


STEP 6: SETUP POWER OUTPUT TO VEHICLE

This is an **optional step** and, unless a lower output is required, leave setting at 32A)

Power output can be restricted by adjusting the dip switch settings on power board. See table below for output values and dip switch settings.

Note: This must be set or adjusted by an authorised installer only! As the EV Charger has a load balancing feature, you can leave the power output to its default setting 32A / 7.4kW and set the maximum house input power in the commissioning page. The EV Charger will monitor the house power consumption, and will use the maximum power available at any given time.



13A 3kW	16A 3.7kW
1 2	1 2

24A 5.5kW	32A 7.4kW
1 2	1 2

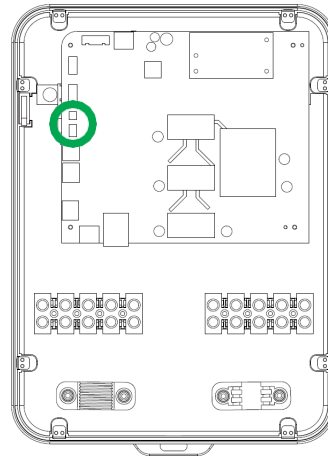
STEP 7: SETUP HOUSE INPUT FUSE

This is also an **optional step** as you are asked to confirm this when commissioning the charger.

Select the value of the house fuse using the dip switch on the power board, to allow the EV Charger to adjust the load balancing power output.

Note: This must be set or adjusted by an authorised installer only!

Note: If the house fuse value is different from the options available through the dip switch, you can use the commissioning page to set the correct fuse value in the "HouseAmpLimit" field.



1x40A Single phase	1x60A Single phase
1 2 3	1 2 3

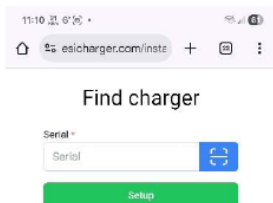
1x80A Single phase	1x100A Single phase
1 2 3	1 2 3

STEP 8: COMMISSIONING

For installers, follow the link: <https://esicharger.com/installer/login>

Use your login details to commission the EV Charger by confirming fuse rating, scanning the unique QR Code for the installed Charger and ensuring that the vehicle will charge using the BOOST function

FIND CHARGER



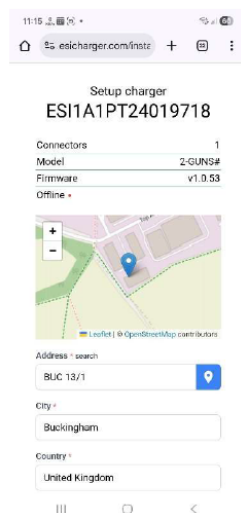
You can click the blue button to scan the QR code, which should be found on the left side of the charger.

- When using this option, you may be asked to give access to the camera.
- We suggest using the back facing camera, for easier access.



Alternatively, you can input the Serial number manually.

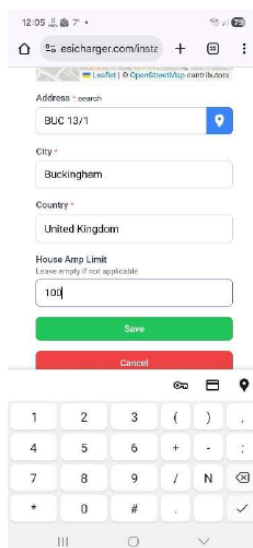
To complete the charger setup you'll need to input the location and fuse size for the property.



To set the location:

Click on the blue button to use the phone's location.

Alternatively, you can input the address manually.

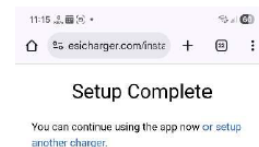


To set the fuse size:

Using the "House Amp Limit" field, type in the value of the fuse.

For example, if the property has a 100A fuse, you'll need to input "100"

Once the location and the fuse size have been setup, click on Save to complete the setup.

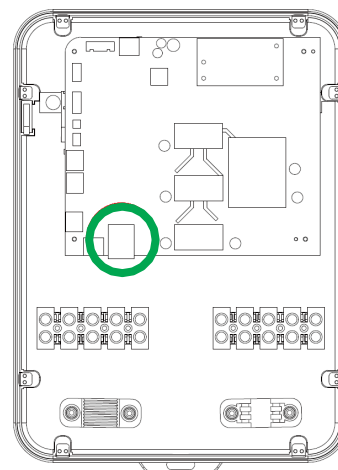


If you're not an authorised installer, you can use the ESi GO app to commission your own EV Charger.

STEP 9: INTERNET CONNECTION

Whenever possible, use the Ethernet cable connection to allow internet access, as this is the easiest solution to configure.

If it is not possible to connect an Ethernet cable, you will need to download the ESI GO APP to establish WI-FI connectivity between the EV Charger and your home network (see user guide).



TROUBLESHOOTING

Please visit the ESi Controls website for latest EV charger troubleshooting tips or contact ESi Controls on EVsupport@esicontrols.co.uk or www.esicontrols.co.uk and ask for Technical. Please provide model and serial number.

WARRANTY

When installed and commissioned by an authorised installer, the EV Charger is covered for 36 months from the date on the proof of purchase. The warranty does not cover any damage or malfunction that is directly or indirectly caused by, or resulting from, misuse, negligence, accident, or improper installation.