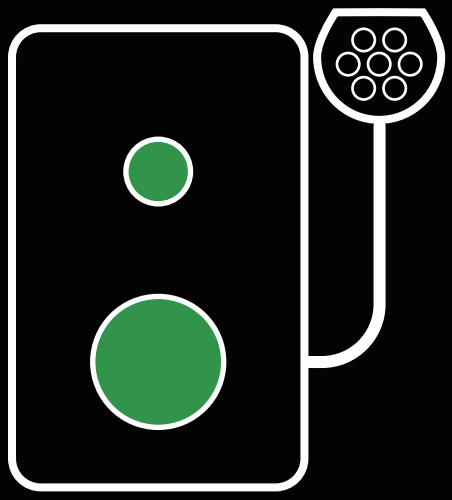
EVone

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.

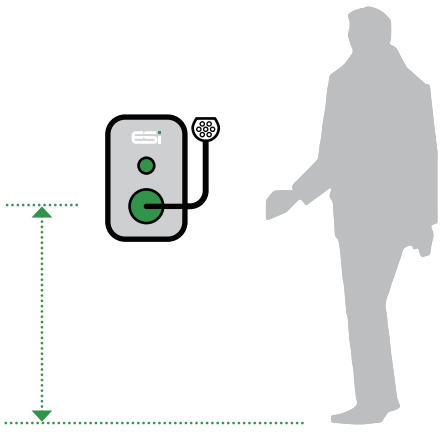
FEATURES:

- **Tethered or socketed option**
- **7.4kW Mode 3 fast charging**
- **Single phase - 230V 50/60 Hz**
- **UK type 2 charger connection**
- **Touch button or integrated RFID reader options**
- **Supplied with RFID master card**
- **Smart control with Wi-Fi or Ethernet (both included)**
- **OCPP compatible**
- **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**
- **LED charger status indication**

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.

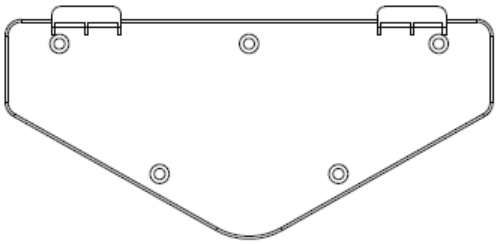
CHOOSING A HEIGHT TO FIX THE CHARGER TO THE WALL
The recommended height is 1.2metres from the ground to the centre of the cable socket.



STEP 1: 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.

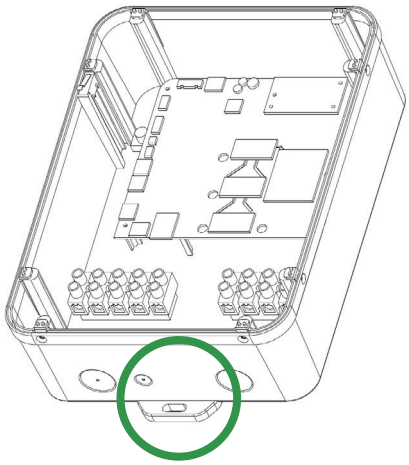
Drill five holes and fix the bracket to the wall with the screws provided, or screws suitable for the application.



STEP 2: 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.

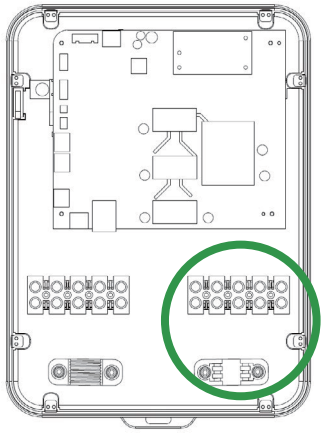


STEP 3: MAINS CABLE CONNECTION

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.

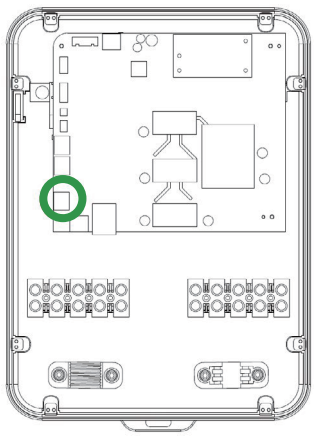
Note: Care must be taken when terminating cables. Ensure conductors are terminated into their corresponding terminals before turning on the power.



STEP 4: INSTALL THE CT CLAMP

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.

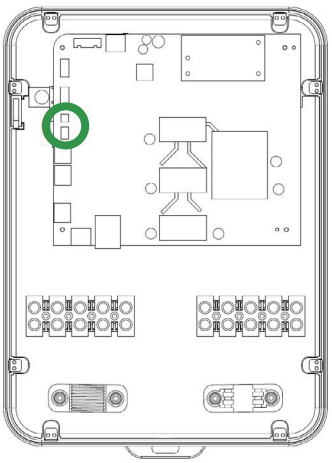
Note: The sofware will always correct the CT clamp readings. You don’t need to worry about the direction of the clamp or which way you connect the wires in the “Ext current det” connector.

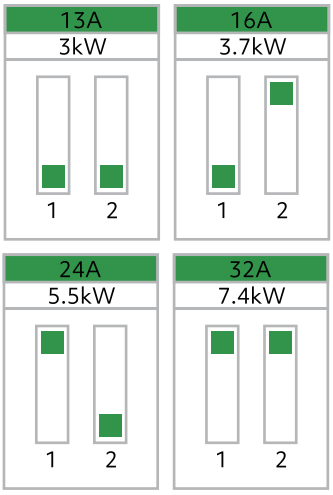


STEP 5: SETUP POWER OUTPUT TO VEHICLE (default 32A / 7.4kW)

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.



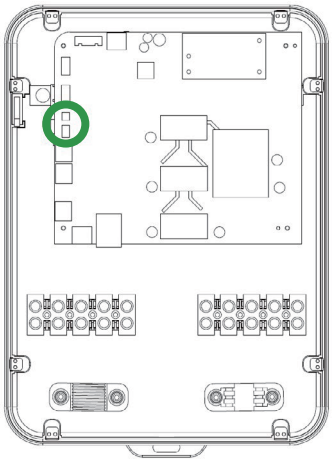


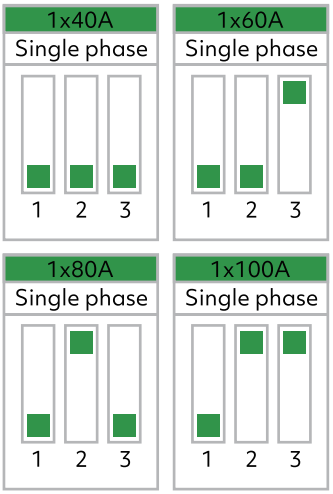
STEP 6: SETUP HOUSE INPUT FUSE (default 100A / Single phase)

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!

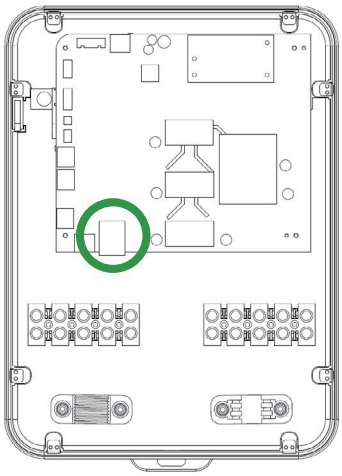
Note: If the house fuse value is different from the options available through the dip switch, you can use the commissioning page to set the correct fuse value in the "HouseAmpLimit" field.





STEP 7: INTERNET CONNECTION (Ethernet Cable / Wi-Fi already fitted)

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 may use the Wi-Fi connection supplied with the EV Charger.



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

Use your login details to commission the EV Charger.

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

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.