ROLEC*EV*

HOME

Electric vehicle charging solutions

ROLEC*EV*

Did you know that 80% of electric vehicle charging is done at home?

That's because charging at home is the most cost-effective and convenient way to charge your plug-in vehicle. Here at Rolec EV we design and manufacture innovative, modern charging solutions for the home so you can benefit from greener, cheaper and smarter charging.

Types of
electric vehicles

Car Type	Battery	Plug-in	Fuel
Battery Electric Vehicle (BEV) Powered solely by an electric battery which is charged by plugging into an electrical socket. Clean energy producing zero carbon emissions.	✓	✓	
Hybrid Electric Vehicle (HEV) Combination of conventional combustion engine assisted by electrical motor and batteries. All energy still comes from fuel, but generally more economical.	✓		✓
Plug-in Hybrid Electric Vehicle (PHEV) This type of Hybrid has larger batteries and electric motor, and can be plugged-in to charge as well as charging on the move.	✓	✓	✓

Types of
charging connectors

AC
CHARGING CONNECTORS

Type 1
A five-pin plug, which is common for American & earlier Asian vehicles, it's a single-phase plug and can charge at a speed of up to 7.4kW.

Type 2
A seven-pin plug, typically found on most European and Asian vehicles from 2018 onwards, it's a triple-phase plug, enabling you to charge your car at a speed of up to 22kW at home and up to 43kW at public charging stations.

DC
CHARGING CONNECTORS

CCS2
This is an enhanced version of the Type 2 plug, with two additional power contacts for the purposes of rapid charging. It supports AC and DC charging. It allows up to 350kW charging speed.

CHAdeMO
This connector allows high charging capacities as well as bidirectional charging. Currently, Asian car manufacturers are offering EVs with a CHAdeMO plug, allowing charging up to 100kW.

Charging
speed comparison

	AC CHARGING			DC CHARGING	
	SLOW Mode 2 / 3	**FAST** Mode 3	**SUPERFAST** Mode 3	**RAPID** Mode 4	**ULTRA FAST** Mode 4
Connector Type	UK 3-Pin Type 1 Type 2	Type 1 Type 2	Type 2	CHAdeMo CCS2	CCS2
Power	2.4 – 3.7kW	7.4kW	11 – 22kW	50 – 100kW	150 – 350kW
Average rate of charge from 10-80%	7 – 11mph	23mph	33mph†	150 – 215mph	320 – 420mph†
Time to charge from 10-80%	24 – 38h 30m	12h	8h 15m†	37 – 70m	25 – 30m†
Typical Application	Home	Home Workplace Shopping Centres Car Parks	Home Workplace Shopping Centres Car Parks Fleets	Workplace Shopping Centres Highways Motorways Fleets	Shopping Centres Highways Motorways Fleets

Charging times based on the Tesla Model Y Long Range Dual Motor 75kWh. Actual charging times may vary

† = Limited by on-board charger, vehicle cannot charge faster

Source: Electric Vehicle Database https://bit.ly/3JPNdMi

AC & DC charging
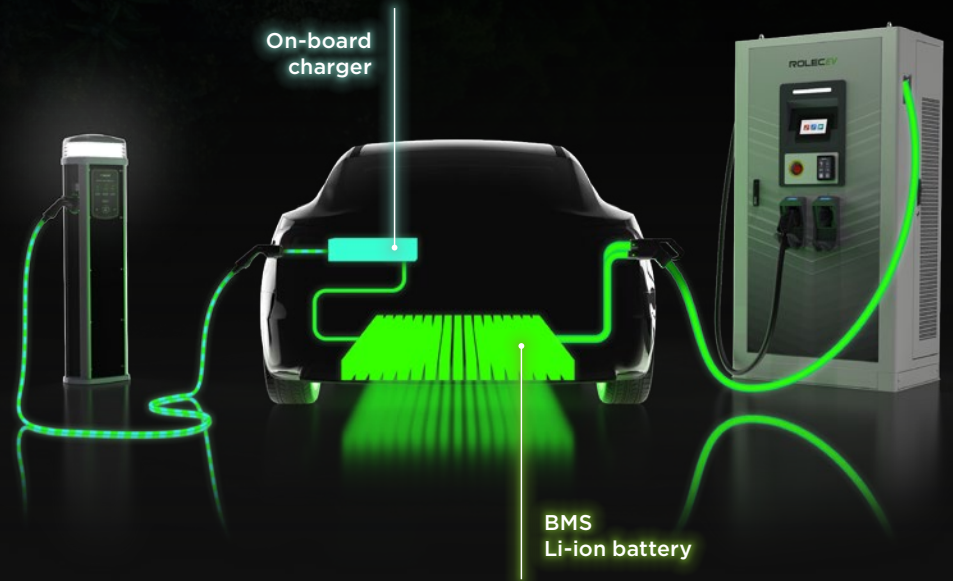# What's the difference?

AC Charging

Alternating Current

Batteries on electric vehicles are powered by DC (Direct Current). An AC charger uses power from the grid which is supplied in AC (Alternating Current), which is then converted to DC by the vehicles on-board charger. Although charging speeds can be limited due to size constraints.

DC Charging

Direct Current

A DC charger supplies power directly to the battery management system (BMS) inside the vehicle, with no on-board charging infrastructure needed inside the vehicle. Higher power can be supplied meaning charging times can be considerably faster.

On-board charger

BMS Li-ion battery

Smart charging just got **SMARTER**

Automatic dynamic load balancing

Protects the property's fuse, allowing drivers to recharge their vehicles without disrupting their property's electrical supply

No more need for earth rods

Equipped with built-in PME fault detection, eliminating the requirement for an earth rod. Saves on installation time and costs

4G / Wi-Fi / Ethernet enabled*

Complete with secure 4G, Wi-Fi and Ethernet connectivity, to ensure that your charger is always online 24/7

Locking your smart charger

The charger lock feature makes it easy to protect your EV charger against electricity theft whilst you're away from your home

Energy tariff driven charging

Set what time your vehicle needs charging by, and we'll ensure you're benefitting from your energy tariff's off-peak hours**

Charge your car the way you want to

Set your preferences in the app to automatically charge your car the cheapest way, to reduce CO_2 emissions or use renewable energy

Go greener with solar charging

Sync with your solar PV setup or other home renewables to benefit from zero-cost and zero-carbon charge**

Allow others to use your chargepoint

Share your chargepoint with friends and family. You're in complete control and can decide who has access

QUBEV SMART

This intelligent, modern yet low-cost unit has been designed to provide electric vehicle drivers with an affordable home charging solution, without compromising on quality.

Paired with the QUBEV Smart app, EV drivers have full control of scheduling charging sessions, solar matching ECO mode and much more. EV drivers can enjoy a seamless charging experience, ensuring their vehicle will be ready for the next electric adventure.

- Universal charging socket or Type 2 tethered lead
- Power rating – Up to 7.4kW or 22kW models
- Adjustable power rating – 10A, 13A, 16A & 32A
- Free QUBEV Smart Wi-Fi app
- Scheduled / off-peak charging
- Solar compatible (single phase models only)
- PEN fault and residual current protection (AC 30mA Type A, DC 6mA)
- Dynamic load balancing (CT clamp(s) & cable(s) included)
- OCPP 1.6 compliant
- Built-in LED charging status indicator
- UK Smart Charge Point Regulations Compliant including tamper security
- Wi-Fi / Ethernet connectivity
- IP54 & IK08 rated
- Corrosion and fire resistant
- CE and UKCA certified
- Easy to install and maintain
- Wall or post mounting options
- OZEV grant fundable
- 3 Year Warranty

UK's **most affordable** home EV charger
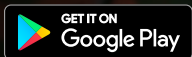
QUBEV
Smart App

The QUBEV Smart app gives you full control of your charger, from scheduling your charging session for when electricity is cheapest, adjusting the power rating, monitoring your energy usage and much more.

Enjoy a seamless charging experience, ensuring your EV will be ready for your next electrified adventure.

Choose from charging modes:
Plug & charge, ECO (solar), scheduled

View charging state

Solar compatible

Schedule charging

Multi user access

Monitor usage

Full charging history

Fault notifications

Security log & alerts

DOWNLOAD THE FREE
QUBEV SMART APP

GET IT ON
Google Play

Download on the
App Store

17:51

QUBEV Smart

0.30
Single electricity(KWh)

Charging
Charging State

Schedule
Charging Mode

12v
Current CP State

0.3
Charging Data (kWh)

01:00   13:00   24:00

228.2
Voltage

4.1
Current

932
(W)

Enable

Home   Mode   Record   Setting

ZURA

Sleek, innovative, powerful, Rolec EV's brand new charger, designed and manufactured to suit both commercial and domestic charging requirements. Zura is complete with never-seen-before customisable aesthetics and is packed with the most-wanted features. Choose from single or dual outlet models. Single outlet units can be upgraded to dual in the future (single phase models only).

- Plug & charge, mobile app or RFID controlled charging
- 1x or 2x universal charging socket(s) or Type 2 tethered lead(s)
- Up to 7.4kW or 22kW charging output(s)
- PME fault detection (no earth rod required)
- Dynamic load balancing (CT clamp & cable included)
- Solar PV, battery storage or domestic wind turbine integration*
- Alexa & Google assistant compatible*
- OCPP 1.6 – can integrate with any app / back office such as; Monta, VENDELECTRIC, ev.energy, Electric Miles, Fuuse etc.
- Over-the-air firmware / software updates
- AC 30mA Type A & DC 6mA protection**
- Cable lock security feature (can be permanently locked by user)
- MID-approved energy metering
- 4G / Wi-Fi / Ethernet connectivity
- IK10 impact resistant design
- Independent back plate for easy wall or post mounting
- OZEV grant fundable
- Designed & manufactured in the UK
- 3 Year Warranty

*App dependent features

**DC 6mA protection for single outlet models

Personalise your own charger

For those interested in customisation or aesthetics, this is the perfect solution for you. It's going on your home after all, so why not make it your own! Whether it's your favourite place, colour or an image of your pet, the choice is entirely yours.

Our most intelligent home charger yet

Up to 10 times faster than a standard domestic socket

Independent back plate for a quick and easy installation

Single outlet units can be upgraded to dual in the future
(single phase models only)

Smart home integration*. You can interact with your charger using Amazon Alexa or Google Assistant.

Solar PV, battery storage or domestic wind turbine integration*

Cable lock feature* – Secure your untethered charging cable into the charger's socket, for peace of mind against cable theft.

*app dependent features

WALLPOD

Fitted with the latest smart technology, this charging unit allows the everyday EV driver to embark on their electrified, sustainable adventures all within the tap of a finger. If you're looking for a charger for your home or business that's affordable and easy to use, this may be the perfect solution for you.

- Plug & charge, mobile app or RFID controlled charging
- Universal charging socket or Type 2 tethered lead
- Up to 7.4kW charging output
- PME fault detection (no earth rod required)
- Dynamic load balancing (CT clamp & cable included)
- Solar PV, battery storage or domestic wind turbine integration*
- Alexa & Google assistant compatible*
- OCPP 1.6 – can integrate with any app / back office such as; Monta, VENDELECTRIC, ev.energy, Electric Miles, Fuuse etc.
- Over-the-air firmware / software updates
- Built-in 6mA DC leakage protection
- Cable lock security feature (can be permanently locked by user)
- MID-approved energy metering
- 4G / Wi-Fi / Ethernet connectivity
- IK10 impact resistant design
- Wall or post mounted
- OZEV grant fundable
- Designed & manufactured in the UK
- 3 Year Warranty

*App dependent features

Choosing the right chargepoint for you

	QUBEV SMART	ZURA	WALLPOD
Connector(s)	1x Universal charging socket 1x Type 2 tethered lead	1x or 2x Universal charging socket(s) 1x or 2x Type 2 tethered lead(s)	1x Universal charging socket 1x Type 2 tethered lead
User control methods	QUBEV Smart Wi-Fi app	Monta app & RFID card/fob (Can integrate with any OCPP app)	Monta app & RFID card/fob (Can integrate with any OCPP app)
Connectivity	Wi-Fi / Ethernet (OCPP only)	4G* / Wi-Fi / Ethernet	4G* / Wi-Fi / Ethernet
Power (kW)	Up to 7.4kW (single phase) or Up to 22kW (three phase)	Up to 7.4kW (single phase) or Up to 22kW (three phase)	Up to 7.4kW (single phase)
Solar compatible	✓ (single phase models only)	✓ **	✓ **
Unit colours	●	●	● ○ ●
Fascia colours	N/A	● Optional: ○ ● 🌈	N/A
Dimensions (WxHxD)	200mm x 330mm x 109mm	260mm x 410mm x 157mm	179mm x 367mm x 142mm
Protection	• AC 30mA Type A & DC 6mA protection • PME fault detection • Dynamic load balancing • Tamper-protection boundary	• AC 30mA Type A & DC 6mA protection*** • PME fault detection • Dynamic load balancing • Tamper-protection boundaries	• DC 6mA protection • PME fault detection • Dynamic load balancing • Tamper-protection boundaries
Compliances	• IEC 61851 • OCPP 1.6 compliant • Meets UK Smart Charge Points Regulations • UKCA & CE marked	• IEC 61851 • OCPP 1.6 compliant • Meets UK Smart Charge Points Regulations • UKCA & CE marked	• IEC 61851 • OCPP 1.6 compliant • Meets UK Smart Charge Points Regulations • UKCA & CE marked
OZEV approved	✓	✓	✓
Buyer protection	3-year warranty	3-year warranty	3-year warranty

*Data fees may apply if connecting via 4G   **App dependent feature   ***DC 6mA protection for single outlet models
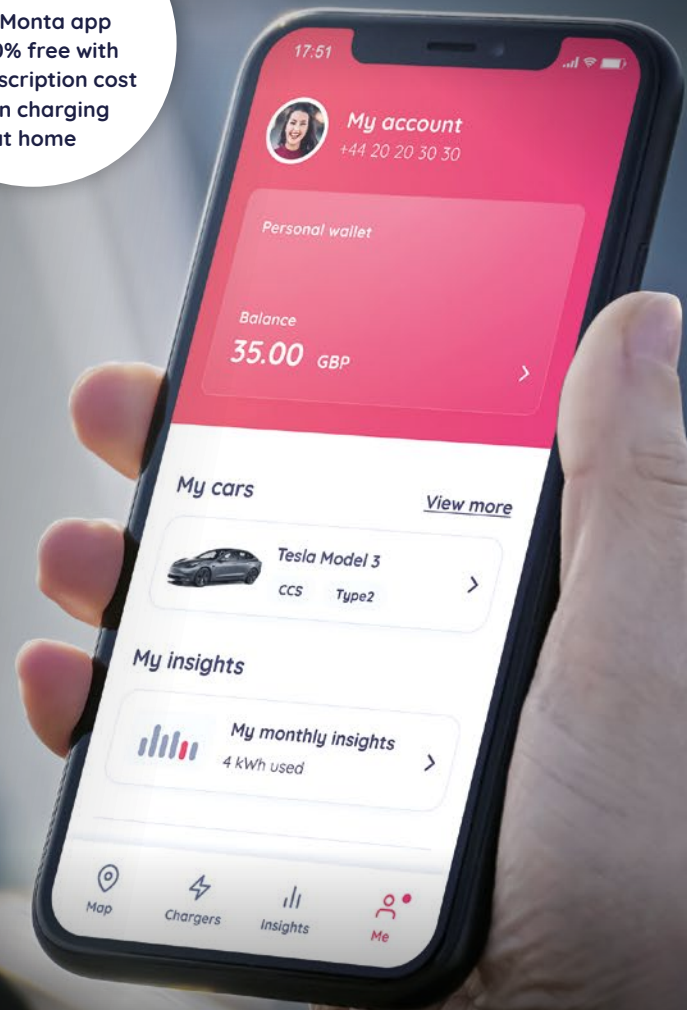
Chargepoint operation

MONTA

EV charging solution for EV drivers

Charge your EV on your terms. With Monta you have full control over your charging experience, at home or on the road.

- Remotely control your home charging
- Easily share and give charging access to friends, family and guests
- Set your charger to public with custom schedules and pricing
- Get charging statistics on kWh, electricity pricing, CO_2 and more
- Smart Charge your car when electricity is cheapest or cleanest
- Auto Smart Charge and your setting will be saved, so you just need to plug in
- Set how much to charge and until what time, and Monta takes care of the rest
- Integrate with your car for real-time state of charging and battery levels
- Access to over 300,000 public chargepoints across Europe
- Easily make payments via credit card, Apple Pay, Google Pay or Monta Wallet
- Online chat or support line for help when you need it most

The Monta app is 100% free with no subscription cost when charging at home

RFID

Great for quick activation, RFID cards or key fobs are easily accessible and add for a much simpler charging experience, which can also be used alongside the mobile app.

DOWNLOAD THE FREE MONTA APP

GET IT ON Google Play

Download on the App Store

www.monta.com/uk/home-charging

Easy steps to get your chargepoint installed

1 **Choose your chargepoint**

Visit our website at to find out which EV charging points are available to you.

www.rolecserv.com/home-charging

2 **Apply online**

Fill out the enquiry form on the website.

3 **Contacting you**

One of our approved nationwide installation partners will soon be in touch to have a chat and find out your requirements. They may ask you to send some pictures of key locations around your property related to the installation.

4 **Confirmation**

Prior to your installation day, the installer will be in touch again to confirm their arrival time. At this stage you may also be given a request for payment.

5 **Installation**

Today is the day! After running through some checks with you the installer will get down to work. When they have completed the installation they will test your charger and circuit – and provide you with all necessary documentation. Then that's it, you're ready to go!

Alternatively, if you're looking to buy one of our products, our entire range of electric vehicle chargepoints and accessories can be purchased from one of our stockists or distributors.

For more information visit out website:
www.rolecserv.com/home-charging

Office for Zero Emission Vehicles

GRANT FUNDED EV CHARGEPOINTS

Benefit from huge savings when purchasing EV chargepoints

The **EV chargepoint grant for flat owner-occupiers and people living in rented properties** provides funding towards the cost of installing electric vehicle smart chargepoints at domestic properties across the UK. It replaced the Electric Vehicle Homecharge Scheme (EVHS) on 1st April 2022.

Up to £350*

- Up to 75% of the cost to buy and install a chargepoint, £350 per grant.

Who can claim the grant:

- Homeowners who live in flats.
- People living in rental accommodation (flats and single-use properties).

To be eligible for the grant, you must:

- Have dedicated off-street parking.
- Own, lease or have the use of a qualifying vehicle.
- Not have already claimed the grant (either the EV chargepoint grant or the previous EVHS grant).

If you live in Scotland, you may be eligible for an additional grant of up to £300** through the Energy Saving Trust (EST). This is on top of the £350 OZEV grant.

For full details of OZEV grant funding, eligibility and how you can apply, please visit:

www.gov.uk/government/collections/government-grants-for-low-emission-vehicles

* Subject to OZEV Ts & Cs   ** Subject to EST Ts & Cs

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