



**NEW MODELS**  
Contactless payment terminal & LCD display screen

**ROLEC**EV

# QUANTUM

Intelligent EV charging pedestal



Manufactured in the UK

# QUANTUM

Intelligent EV charging pedestal

The QUANTUM EV charging pedestal is a sophisticated and resilient EV charging point, providing a combination of durability and impeccable design for all locations. This charger's integrated LED amenity lighting also provides greater visibility of the charging bays and surrounding areas.

Effortless integration with any OCPP chargepoint management system offers an ideal plug-and-charge or pay-to-charge solution. Seamless charging experience for EV drivers via an app, RFID card/fob, or optional contactless payment. Additionally, an optional 5" LCD screen displays real-time charging status.

Feature-rich, this EV charger supports dynamic load balancing and is equipped with PME fault detection to reduce installation costs. Available in 1way, 2way or 4way\* versions, providing up to 22kW superfast charging.



**NEW MODELS**

Contactless payment terminal & LCD display screen

\*Model dependant features



# Product features

- Plug & charge, app, contactless payment (model dependant), or RFID controlled charging
- Choose from 1x, 2x or 4x universal charging socket(s)
- Up to 7.4kW or 22kW charging output(s)
- PME fault detection (no earth rod required)
- Supports dynamic load balancing & static load management
- OCPP 1.6 compliant (can integrate with any back-office)
- Over-the-air firmware / software updates
- Built-in AC overload & fault current protection (RCBO)
- Built-in 6mA DC leakage protection
- Dual tamper and breach security notifications
- Lockable front access door (model dependant\*)
- 5" LCD Screen (model dependant)
- Cable lock security feature (can be permanently locked by user)
- LED amenity lighting head (Photocell controlled)
- MID-approved energy metering
- 4G / Wi-Fi / Ethernet connectivity
- Conforms with PAS 1899 accessible charging standard (model dependant)
- Strong and durable IP54 / IK10 rated
- Surface or root mountable

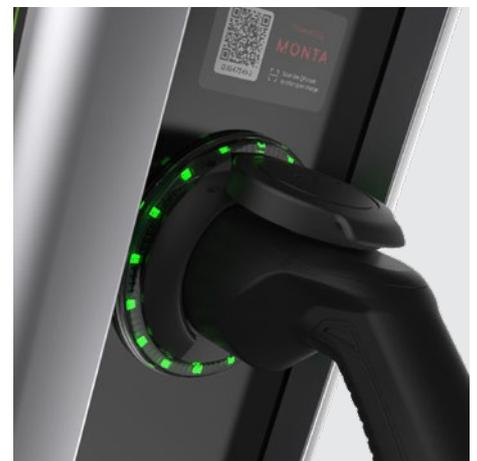
Powered by **MONTA**

Other preferred back-office and mobile app partners:

**Fuuse**

**wattif**

**ChargePlace Scotland**  
electric vehicle charging



\*Included as standard on models with contactless payment terminal and/or LCD screen. Available as an optional upgrade on other models QUAD0001 (see page 9)



## OCPP 1.6 compliant

Ability to integrate with any OCPP compliant chargepoint management system and app.



## Easy to operate

Quick and simple ways to operate; plug & charge, app, RFID card/fob, or optional contactless payment.



## Eligible for grant funding

This range is approved for grant funding. For more information visit: [rolecserv.com/ozev-grant-funding](http://rolecserv.com/ozev-grant-funding)



## 4G / Wi-Fi / Ethernet enabled

Complete with secure 4G, Wi-Fi and Ethernet connectivity, ensuring chargers are always online 24/7.



## Branding & colour options available

Rolec offers a bespoke chargepoint branding service; from logos & brand colours, to vinyl wraps.



## No earth rod required

Equipped with built-in PME fault detection, saving installation time and costs.

## The details

### LCD SCREEN

OPTIONAL  
FEATURE

The 5" LCD screen, protected by a tempered glass front, provides clear step-by-step charging instructions, real-time charging status, and live MID meter readings for each outlet. Support contact information is also conveniently displayed at the bottom of the screen.

### GO CONTACTLESS

OPTIONAL  
FEATURE

The market-leading integrated contactless payment terminal offers EV drivers a hassle-free tap-and-charge experience. Perfect for public locations.

LEARN MORE

Go to [www.bit.ly/3WA8EYf](http://www.bit.ly/3WA8EYf)



### UP TO 22KW

Available in both single phase and three phase models, providing up to 22kW superfast charging.

QUANTUM is compatible with all EVs & PHEVs, charging at the fastest speed possible, ensuring vehicles are ready to go in no time.

### ACCURATE BILLING

Built-in MID-approved energy metering ensures accurate consumption reporting, which is essential for businesses and residential car parks, wishing to bill for their usage. Use our back-office management platform to generate revenue by setting your own tariffs.

### SAFE AND SECURE

Rolec's entire EV chargepoint range is fully UK Smart Charge Point Regulation compliant, and come with a 3 year warranty for added peace of mind.

Chargers receive over-the-air updates ensuring a safe and future-proof product 24/7.

# The details

## Model Variations



QUANTUM with LCD screen & contactless payment terminal

QUANTUM with LCD screen

QUANTUM with contactless payment terminal

QUANTUM with standard features

Plug & charge operation	✓	✓	✓	✓
Mobile app operation	✓	✓	✓	✓
RFID card/fob operation	✓	✓	✓	✓
Contactless payment terminal	✓		✓	
5" LCD screen	✓	✓		
Lockable front access door	✓	✓	✓	Optional
Charging speeds (Max. kW)	7.4   22	7.4   22	7.4   22	7.4   22
No. of charging outputs	1x   2x	1x   2x	1x   2x	1x   2x   4x
Colour options	● ●	● ●	● ●	● ● ● ●
Product codes	ROLEC3411B ROLEC3421B ROLEC3413B ROLEC3423B	ROLEC2411B ROLEC2421B ROLEC2413B ROLEC2423B	ROLEC1411B ROLEC1421B ROLEC1413B ROLEC1423B	ROLEC0411B/G/W ROLEC0421B/G/W ROLEC0425B/G/W ROLEC0413B/G/W ROLEC0423B/G/W

# Specifications

## Product Overview

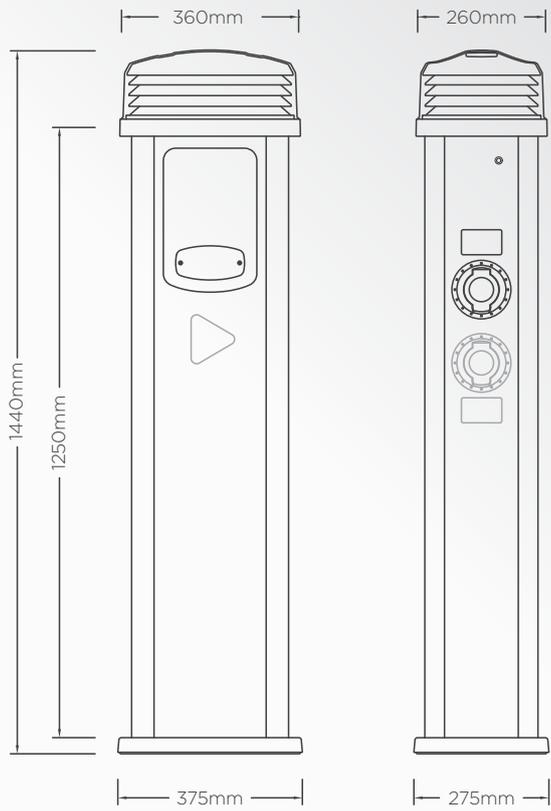
	Connection Type	Charging Output	Input Supply	Unit Colour	Additional Features	Product Code				
Single Phase Units	1x Universal charging socket	Up to 7.4kW (32A)	1x Up to 32A Single Phase* 230V AC (±10 %) 50/60Hz	● Black	LCD screen & contactless payment terminal	ROLEC3411B				
					LCD screen	ROLEC2411B				
					Contactless payment terminal	ROLEC1411B				
					None	ROLEC0411B				
					● Grey	None	ROLEC0411G			
					○ White	None	ROLEC0411W			
	2x Universal charging sockets	Up to 7.4kW (32A) per socket	1x Up to 63A Single Phase* 230V AC (±10 %) 50/60Hz	● Black	LCD screen & contactless payment terminal	ROLEC3421B				
					LCD screen	ROLEC2421B				
					Contactless payment terminal	ROLEC1421B				
					None	ROLEC0421B				
					● Grey	None	ROLEC0421G			
					○ White	None	ROLEC0421W			
4x Universal charging sockets	Up to 7.4kW (32A) per socket	2x Up to 63A Single Phase* 230V AC (±10 %) 50/60Hz	● Black	None	ROLEC0425B					
				● Grey	None	ROLEC0425G				
				○ White	None	ROLEC0425W				
				Three Phase Units	1x Universal charging socket	Up to 22kW (32A)	1x Up to 32A Three Phase* 400V AC (±10 %) 50/60Hz	● Black	LCD screen & contactless payment terminal	ROLEC3413B
									LCD screen	ROLEC2413B
									Contactless payment terminal	ROLEC1413B
None	ROLEC0413B									
● Grey	None	ROLEC0413G								
○ White	None	ROLEC0413W								
2x Universal charging sockets	Up to 22kW (32A) per socket	1x Up to 63A Three Phase* 400V AC (±10 %) 50/60Hz	● Black	LCD screen & contactless payment terminal	ROLEC3423B					
				LCD screen	ROLEC2423B					
				Contactless payment terminal	ROLEC1423B					
				None	ROLEC0423B					
				● Grey	None	ROLEC0423G				
				○ White	None	ROLEC0423W				

\*Chargepoint(s) will downrate if the input supply is lower than the maximum charging output

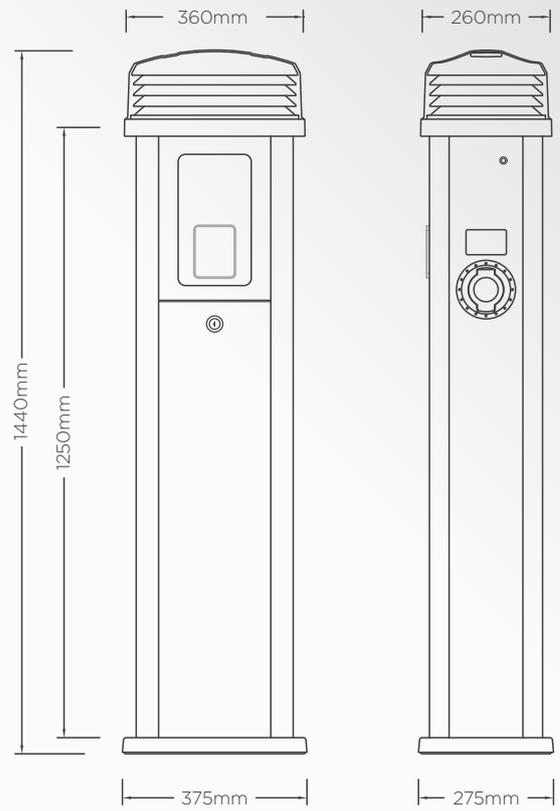
# Specifications

## Unit Dimensions

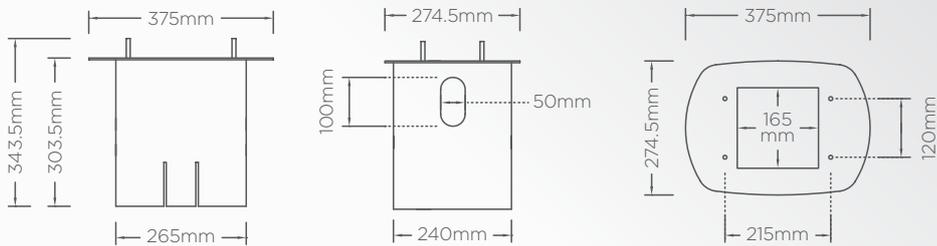
Quantum 1way/2way/4way unit:



Quantum 1way/2way unit with door:



Ground mounting base:



# Specifications

## Technical Data

<b>User Interface</b>	<ul style="list-style-type: none"> <li>• Mobile app</li> <li>• Contactless card payment terminal (EMVCo. L1 v3.0 Certified) (model dependant) <ul style="list-style-type: none"> <li>• RFID reader (ISO14443 A &amp; B (T=CL), Desfire EV2/3 &amp; Mifare Classic protocols) <ul style="list-style-type: none"> <li>• NFC (ISO18092)</li> </ul> </li> </ul> </li> <li>• 5" LCD display screen (model dependant)</li> <li>• RFID reader(s) (MIFARE ISO/IEC 14443 A) (model dependant)</li> <li>• Plug &amp; charge</li> <li>• RGB LED status indicator halo(s) - configurable</li> </ul>
<b>Charge Protocol</b>	Mode 3 (IEC 61851-1)
<b>Protection</b>	<ul style="list-style-type: none"> <li>• AC overload &amp; fault current protection - 40A 30mA Type A RCBO (per socket)</li> <li>• DC fault protection - 6mA</li> <li>• Lightning surge, over temperature protection</li> <li>• PME fault detection - No earth electrode/rod required</li> <li>• Supports automatic dynamic load balancing (may require additional hardware)</li> <li>• Supports static load management (software configurable)</li> </ul>
<b>Cable Terminals</b>	<ul style="list-style-type: none"> <li>• Single Phase - 3x 50mm 1P + N + E (2x [3x 50mm] for ROLECO425B, ROLECO425G, ROLECO425W. Alternative cable terminals available upon request)</li> <li>• Three Phase - 5x 50mm 3P + N + E</li> </ul>
<b>Communications</b>	<ul style="list-style-type: none"> <li>• 4G LTE Cat-1 (built-in nano SIM(s), subscription required) <ul style="list-style-type: none"> <li>• LTE FDD: B1/B3/B5/B7/B8/B20/B28</li> <li>• GSM: B2/B3/B5/B8</li> </ul> </li> <li>• Wi-Fi 802.11 b/g/n 2.4 GHz (2412-2472 MHz / 2422-2462 MHz)</li> <li>• NFC 13.56 MHz</li> <li>• RJ45 Ethernet connection (2x connections for ROLECO425B, ROLECO425G, ROLECO425W)</li> <li>• Bluetooth Low Energy (BLE 4.1) 2402-2480 MHz (for installer configuration purposes)</li> <li>• OCPP 1.6J</li> <li>• Cyber security - Data encryption level TLS 1.2</li> </ul>
<b>Energy Metering</b>	Integrated Class 1 MID compliant metering
<b>Amenity Lighting</b>	360° Low energy LED <ul style="list-style-type: none"> <li>• Rating - 1 x GX53 9W LED, 230-240V AC</li> <li>• Colour temperature - 4000K</li> <li>• Protection - 6A 30mA Type A RCBO</li> </ul>
<b>Standby Power Consumption</b>	<ul style="list-style-type: none"> <li>• Charging circuits - &lt; 7.5W (per socket)</li> <li>• Panel heater - 8W</li> <li>• Lighting - 9W</li> <li>• LCD display screen - &lt; 3W (where fitted)</li> <li>• Contactless card payment terminal - 18W (where fitted)</li> </ul>
<b>Dimensions</b>	375mm x 1440mm x 275mm (W x H x D)
<b>Weight</b>	< 34kg (model dependant)
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Ingress protection - Enclosure IP66, Socket IP54</li> <li>• Impact protection - IK10</li> <li>• Security - Dual tamper and breach notifications</li> <li>• Operating temperature - -30°C to +50°C</li> <li>• Operating humidity - 5% to 95%</li> </ul>
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Substructure - 2.5mm 6063 extruded Aluminium, 25 micron hard anodised protective finish</li> <li>• Panel - 3.2mm Aluminium composite</li> <li>• Door - Heavy duty 1.5mm Steel with 45-55 microns of Zinc primer and corrosive resistant, textured Polyester powder coating finish (where fitted)</li> <li>• Fascia - tempered glass (where fitted)</li> <li>• Lens - High impact resistant 3mm Polycarbonate</li> <li>• Base - High impact resistant, heavy-duty 5mm Polycarbonate</li> <li>• Lid/collar/louvres - High impact resistant Polycarbonate</li> </ul>
<b>Unit Colour</b>	<span style="display: inline-block; width: 10px; height: 10px; background-color: black; border-radius: 50%; margin-right: 5px;"></span> Black <span style="display: inline-block; width: 10px; height: 10px; background-color: grey; border-radius: 50%; margin-left: 20px; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; border: 1px solid grey; border-radius: 50%; margin-left: 20px; margin-right: 5px;"></span> Grey & White (model dependant) <span style="display: inline-block; width: 15px; height: 15px; border: 1px solid grey; border-radius: 50%; margin-left: 20px; margin-right: 5px;"></span> Other colours available upon request
<b>Certifications &amp; Compliances</b>	<ul style="list-style-type: none"> <li>• EV Charging Compliance - EN 61851-1:2019, EN 61851-22:2002</li> <li>• Smart Charge Points - (SI 2021/1467)</li> <li>• Wiring Regulations - BS 7671:2018+A2:2022</li> <li>• EMC Compliance - EN 61000-6-3:2007+A1:2011, EN 61000-6-2:2005, 2014/30 /EU, SI 2016/1091, (EN 301 489-1 V1.9.2, EN 301 489-3 V2.1.1, EN 301 489-17 V1.3.1, EN 301 489-19 V2.1.1, EN 301 489-52 v1.1.0)<sup>P</sup></li> <li>• Safety Compliance (LVD) - EN 62368-1:2014, 2014/35/EU, SI 2016/1101, EN 60950-22:2006<sup>P</sup></li> <li>• Communications / RED - EN 62311:2008, 2014/53/EU, SI 2017/1206, EN 300 330 V2.1.1 (2017-02), EN 301 908-1 V15.1.1 (2021-09), EN 301 908-13 V13.2.1 (2022-02), EN 301 511 V12.5.1 (2017-03), EN 300 328 V2.2.2 (2019-07), EN 300 440 V2.2.1 (2018-07), (EN 301 908-2 V13.1.1, EN 303 413 V1.1.1)<sup>P</sup></li> <li>• Environmental Protection - BS EN 60529:1992+A2:2013</li> <li>• Impact Rating - BS EN 62262:2002+A1:2021</li> <li>• Metering - 2014/32/EU, SI 2016/1153</li> <li>• Accessibility - PAS 1899 accessible charging standard</li> <li>• RoHS - 2011/65/EU, SI 2012/3032</li> <li>• REACH - 1907/2006, REACH etc. (Amendment) Regulations 2021</li> <li>• Payter Payment Device - CE, FCC, RoHS, WEEE, REACH, EMVCo, PCI-PTS 6.x, TQM, MasterCard, VISA, American Express, Discover, Diners <sup>P</sup></li> <li>• Certifications - CE &amp; UKCA</li> </ul>
<b>Warranty</b>	3 years

# Options & accessories

Product Code	Item Description
RFID0010	RFID card
RFID0020	RFID fob
GMQR0010	Ground mounting base for Quantum pedestal
QUAD0001	Front access door upgrade with RFID - Black
EVCB0020	Root mount protection barrier - 48mm
EVCB0040	Surface mount protection barrier - 48mm
EVPS0010	EV parking sign - A4 landscape (Other sizes are available)
EVPP0100	5m 32A Type 2 to Type 2 charging cable
EVPP0107	10m 32A Type 2 to Type 2 charging cable
EVPP0105	5m 32A Three phase Type 2 to Type 2 charging cable
EVPP0108	10m 32A Three phase Type 2 to Type 2 charging cable (Other cables are available, including Type 1 options)
ACSR0520	Perific fuse protection device - 3x 36mm current sensors
ACSR0530	Perific fuse protection device - 3x 100mm current sensors
ACSR0125	100A up to 35mm <sup>2</sup> screened CT clamp with 10m cable



GMQR0010



EVCB0040



QUAD0001



RFID0020



EVPS0010



ACSR0530



**NEW**

Tethered models available upon request



EVPP0100



## Branding & colour options available

Rolec offer a bespoke chargepoint branding service; from logos & brand colours, to vinyl wraps. This can be arranged at time of order. Contact ROLEC for details.

Brand names, logos and trademarks used herein remain the property of their respective owners. This listing of any firm or their logos is not intended to imply any endorsement or direct affiliation with Rolec Services Ltd. and is purely to demonstrate branding opportunities.

# Chargepoint management



Monta's chargepoint management platform provides businesses and organisations with the ability to deploy and self-manage their very own electric vehicle charging network. Ideal for workplace, fleet, commercial and residential locations.

-  Full & automated control of your chargepoints
-  Unlock additional revenue streams
-  Set chargepoints for public and/or private use
-  Set different pricing for individual chargepoints & groups
-  Dynamic pricing allows operators to set pricing in line with their hour-by-hour energy cost
-  Fully scalable solution; add or remove chargepoints & users
-  Complete fleet management solutions with analytical feedback & reporting
-  Reduce charging costs and CO<sub>2</sub> with Smart Charge feature
-  Vehicle integration provides visibility of battery size, SOC, percentage & location etc.
-  Automatically reimburse employees' home charging
-  Smart queuing system that sends notifications to drivers when they become available
-  Over-the-air updates and self-healing algorithms ensure charger stability & availability
-  Static, Dynamic or True Dynamic load balancing options
-  EV Roaming feature, allowing chargepoints to be available on other apps

Other preferred back-office partners:

-  Fuuse
-  wattif
-  ChargePlace Scotland  
electric vehicle charging

+ many more

**Charge point settings**  
Set charge point to public

Private  Public

**Reserve charge point**  
Book charge points at a time that suits you the best!

**Reserve**

**Easy payment for your employees**

**Charge revenue**

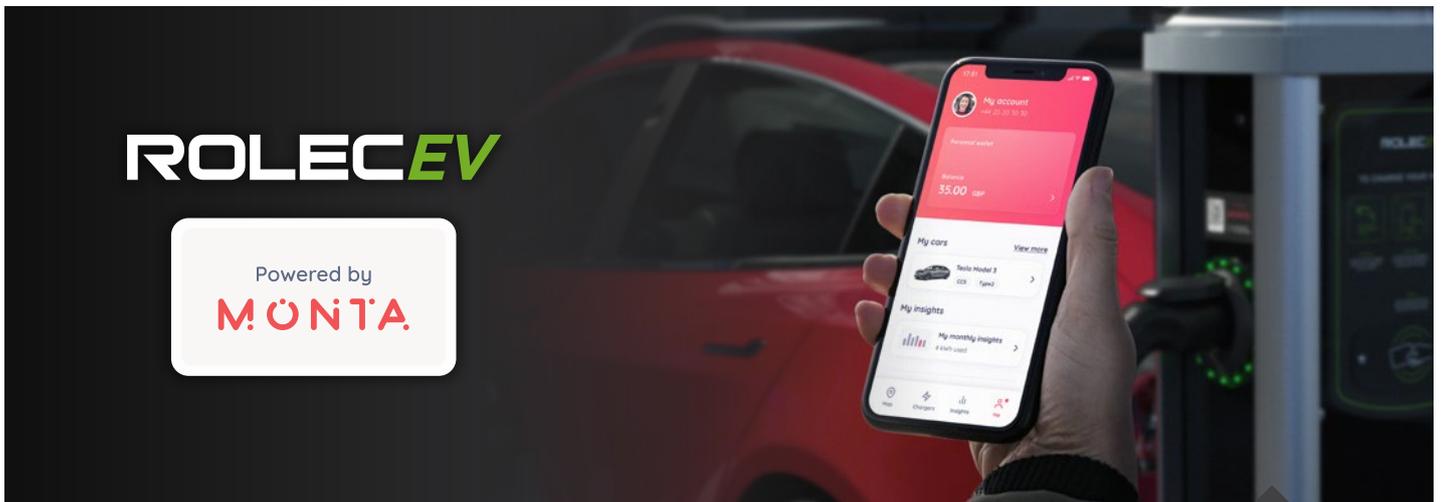
Feb 23  
+3.48%





▶ For more information about Monta's chargepoint management solutions and pricing, see the Powered by Monta Overview Sheet

# Chargepoint operation



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

-  Easily locate and navigate using the chargepoint map
-  Remotely control your home EV charging
-  Choose your ready time and choose to prioritise lower costs, lower CO<sub>2</sub> or only using renewable energy
-  Schedule charges so your car is ready when you are
-  Integrate with most EV manufacturer apps and cars
-  Real-time information on your car and battery levels to maximize your charging experience
-  Solar PV & battery storage integration
-  Share and give charging access to friends, family and guests
-  Set your home charger for public use with custom pricing
-  Access to over 500,000 public chargepoints across Europe
-  Easily initiate charging and complete payments via credit card, Apple Pay, Google Pay or Monta Wallet
-  24/7 online chat or email support for help when you need it most



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

Other preferred mobile app partners:

-  Fuuse
-  wattif
-  ChargePlace Scotland electric vehicle charging
-  ev.energy



DOWNLOAD THE APP



## RFID activation

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.



▶ For more details about the Monta solution for EV drivers and the Monta app, please visit [www.monta.com/uk/home-charging](http://www.monta.com/uk/home-charging)



THIS DOCUMENT CONTAINS INFORMATION THAT IS SUBJECT TO CHANGE WITHOUT NOTICE.

The latest version of this publication can be downloaded at <https://www.rolecserv.com/downloads-ev-charging>

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EVQD-V02-R2 Quantum Data Sheet



Manufactured  
in the UK

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