

# ROLECEV

Intelligent EV charging pedestal



# QUANTUM

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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.



\*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



#### 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.

Powered by M Ü N 1 A.

back-office and mobile app partners:

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#### 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.





\*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)



#### Eligible for grant funding

This range is approved for grant funding. For more information visit: rolecserv.com/ozev-grant-funding



No earth rod required

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

### The details



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.



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

# 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	<image/>	<image/> <image/>	<image/>
Plug & charge operation	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
Mobile app operation	Ø	$\bigotimes$	$\bigotimes$	$\bigotimes$
RFID card/fob operation	$\bigotimes$	$\bigotimes$	$\bigotimes$	$\bigotimes$
Contactless payment terminal	$\bigotimes$		$\bigotimes$	
5" LCD screen	$\bigotimes$	$\bigotimes$		
Lockable front access door	$\bigotimes$	$\bigotimes$	$\bigotimes$	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

ROLECEV

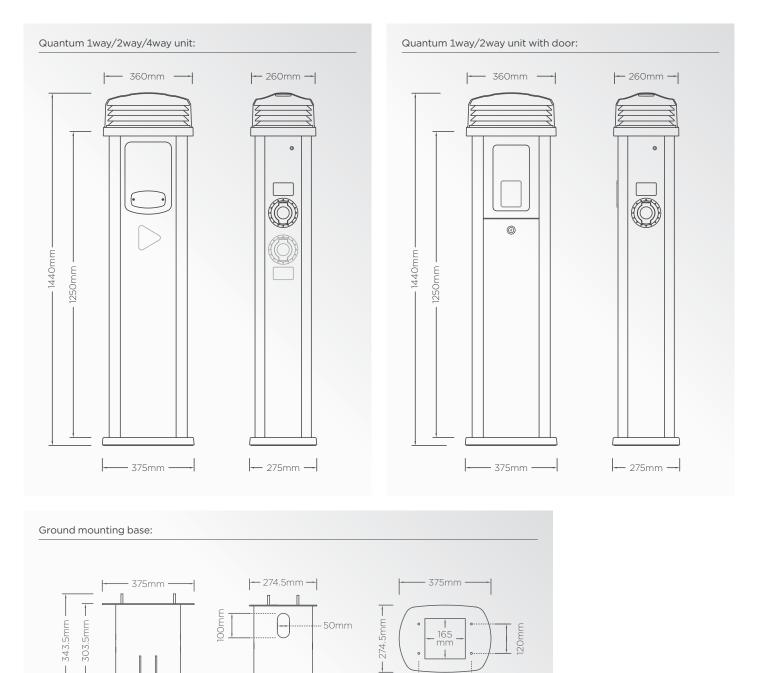
# **Specifications**

Produ	Product Overview						
	Connection Type	Charging Output	Input Supply	Unit Colour	Additional Features	Product Code	
Single Phase Units	1x Universal	Up to 7.4kW (32A)	1x Up to 32A Single Phase* 230V AC (±10 %) 50/60Hz		LCD screen & contactless payment terminal	ROLEC3411B	
				Black	LCD screen	ROLEC2411B	
					Contactless payment terminal	ROLEC1411B	
	charging socket				None	ROLEC0411B	
				Grey	None	ROLEC0411G	
				O White	None	ROLEC0411W	
		Up to		Black	LCD screen & contactless payment terminal	ROLEC3421B	
			1x Up to 63A Single Phase* 230V AC (±10 %) 50/60Hz		LCD screen	ROLEC2421B	
	2x Universal				Contactless payment terminal	ROLEC1421B	
	charging sockets	7.4kW (32A) per socket			None	ROLEC0421B	
				Grey	None	ROLEC0421G	
				O White	None	ROLEC0421W	
		Up to 7.4kW (32A) per socket	2x Up to 63A Single Phase* 230V AC (±10 %) 50/60Hz	Black	None	ROLEC0425B	
	4x Universal charging sockets			Grey	None	ROLEC0425G	
				O 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	
				O 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	
				O White	None	ROLEC0423W	

 $^{*}$ Chargepoint(s) will downrate if the input supply is lower than the maximum charging output

# **Specifications**

#### **Unit Dimensions**



- 50mm

- 240mm -

120mm

165 mm

- 215mm -



- 265mm -

# **Specifications**

	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>
	<ul> <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),</li> </ul>
	(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>
	<ul> <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,</li> </ul>
·	<ul> <li>Smart Charge Points - (SI 2021/1467)</li> <li>Wiring Pequations - BS 7671:2018+02:2022</li> </ul>
Certifications & Compliances	EV Charging Compliance – EN 61851-1:2019, EN 61851-22:2002
Unit Colour	Lid/collar/louvres - High impact resistant Polycarbonate     Black Grey & White (model dependant)     Grey & White (model dependant)
	<ul> <li>Base - High impact resistant, heavy-duty 5mm Polycarbonate</li> <li>Lid/collar/louvres - High impact resistant Polycarbonate</li> </ul>
	<ul> <li>Fascia – tempered glass (where fitted)</li> <li>Lens – High impact resistant 3mm Polycarbonate</li> </ul>
	Polyester powder coating finish (where fitted)
	<ul> <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</li> </ul>
Materials	Substructure - 2.5mm 6063 extruded Aluminium, 25 micron hard anodised protective finish
	<ul> <li>Operating temperature30°C to +50°C</li> <li>Operating humidity - 5% to 95%</li> </ul>
	<ul> <li>Security – Dual tamper and breach notifications</li> </ul>
Environmental	<ul> <li>Ingress protection – Enclosure IP66, Socket IP54</li> <li>Impact protection – IK10</li> </ul>
Weight	< 34kg (model dependant)
Dimensions	375mm x 1440mm x 275mm (W x H x D)
	Contactless card payment terminal – 18W (where fitted)
	<ul> <li>Lighting – 9W</li> <li>LCD display screen – &lt; 3W (where fitted)</li> </ul>
Standby Power Consumption	<ul> <li>Charging circuits - &lt; 7.5W (per socket)</li> <li>Panel heater - 8W</li> </ul>
Chan allow David Chan all	Protection - 6A 30mA Type A RCBO
	Colour temperature – 4000K
Amenity Lighting	360° Low energy LED • Rating - 1 x GX53 9W LED, 230-240V AC
Energy Metering	Integrated Class 1 MID compliant metering
	Cyber security – Data encryption level TLS 1.2
	<ul> <li>Bluetooth Low Energy (BLE 4.1) 2402-2480 MHz (for installer configuration purposes)</li> <li>OCPP 1.6J</li> </ul>
	<ul> <li>NFC 13.56 MHz</li> <li>RJ45 Ethernet connection (2x connections for ROLEC0425B, ROLEC0425G, ROLEC0425W)</li> </ul>
	<ul> <li>Wi-Fi 802.11 b/g/n 2.4 GHz (2412-2472 MHz / 2422-2462 MHz)</li> </ul>
	<ul> <li>LTE FDD: B1/B3/B5/B7/B8/B20/B28</li> <li>GSM: B2/B3/B5/B8</li> </ul>
Communications	4G LTE Cat-1 (built-in nano SIM(s), subscription required)
	<ul> <li>(2x [3x 50mm] for ROLEC0425B, ROLEC0425G, ROLEC0425W. Alternative cable terminals available upon request)</li> <li>Three Phase – 5x 50mm 3P + N + E</li> </ul>
Cable Terminals	• Single Phase – 3x 50mm 1P + N + E
	<ul> <li>Supports automatic dynamic load balancing (may require additional hardware)</li> <li>Supports static load management (software configurable)</li> </ul>
	PME fault detection – No earth electrode/rod required
	<ul> <li>DC fault protection - 6mA</li> <li>Lightning surge, over temperature protection</li> </ul>
Protection	AC overload & fault current protection – 40A 30mA Type A RCBO (per socket)
Charge Protocol	Mode 3 (IEC 61851-1)
	<ul> <li>Plug &amp; charge</li> <li>RGB LED status indicator halo(s) – configurable</li> </ul>
	<ul> <li>5" LCD display screen (model dependant)</li> <li>RFID reader(s) (MIFARE ISO/IEC 14443 A) (model dependant)</li> </ul>
	• NFC (ISO18092)
	<ul> <li>Contactless card payment terminal (EMVCo. L1 v3.0 Certified) (model dependant)</li> <li>RFID reader (ISO14443 A &amp; B (T=CL), Desfire EV2/3 &amp; Mifare Classic protocols)</li> </ul>
	Mobile app

# **Options & accessories**

Product Code	Item Description
RFID0010 RFID0020	RFID card 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 $35 \text{mm}^2$ screened CT clamp with 10m cable





#### 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.

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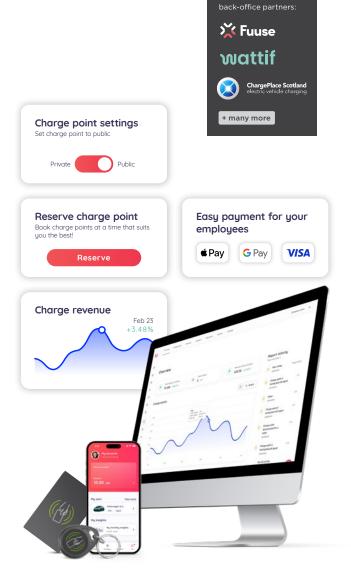


### **Chargepoint management**



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
- N 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
- $\sim$  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
- 5 Static, Dynamic or True Dynamic load balancing options
- EV Roaming feature, allowing chargepoints to be available on other apps



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

mobile app partners:

🏅 Fuuse

wattif

🗙 energy

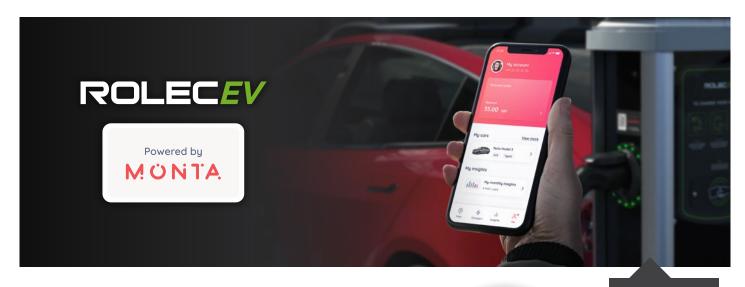
The Monta Charge

app is 100% free

with no subscription cost when charging

at home

# **Chargepoint operation**



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

- R 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
- $\bigcirc$  24/7 online chat or email support for help when you need it most

#### **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.



DOWNLOAD THE APP

Charaina

56%

18:17

For more details about the Monta solution for EV drivers and the Monta app, please visit **www.monta.com/uk/home-charging** 



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Illustrations of the product and user interface are for marketing purposes only.

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t: 01205 724754 e: enquiries@rolecserv.co.uk

www.rolecserv.com