



**ROLECEV**

# 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.

This future-proof OCPP compliant pedestal can offer a simple plug & charge or pay-to-charge solution via the EV driver's smartphone and/or RFID card/fob through any chosen OCPP back-office management system.

Feature-rich, this EV charger supports dynamic load balancing and is equipped with PME fault detection, so there is no requirement for an earth rod, reducing installation costs.

Available in 1way, 2way or 4way versions, providing up to 22kW superfast charging.



# Product features

- Plug & charge, mobile app or RFID controlled charging
- Choose from 1x, 2x or 4x universal charging socket(s)
- Up to 7.4kW or 22kW charging output(s)
- TruePEN 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
- Cable lock security feature (can be permanently locked by user)
- Integrated RFID reader(s)
- LED amenity lighting head (Photocell controlled)
- MID-approved energy metering
- 4G / Wi-Fi / Ethernet connectivity
- IK10 impact resistant design
- Surface or root mountable
- OZEV grant fundable
- Designed & manufactured in the UK

Rolec EV's chargepoint management platform:

 VendElectric


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Other preferred back-office partners:

 MONTA


 Fuuse

 ChargePlace Scotland  
electric vehicle charging


**OCPP 1.6 compliant**

Ability to integrate with any OCPP compliant back-office management system and app.



**Easy to operate**


Three quick and easy ways to operate: mobile app, RFID cards and fobs or plug & charge.



**Office for Zero Emission Vehicles**


**Eligible for grant funding**

This range is approved for grant funding via the OZEV Workplace Charging Scheme (WCS).




**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 TruePEN PME fault detection, saving installation time and costs.

## The details

### 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.

### 4 WAY CHARGING

The QUANTUM is available in 1way, 2way and 4way versions, allowing up to four vehicles to charge simultaneously, using just one EV charging pedestal.

The perfect EV charging pedestal solution for fleet, workplace and car park requirements.



### 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

Rest assured, Rolec's entire EV chargepoint range meets the currently required safety and security standards.

Over-the-air updates allow the chargers to receive the very latest features, ensuring a safe and future-proof product 24/7.

### 3 YEAR WARRANTY

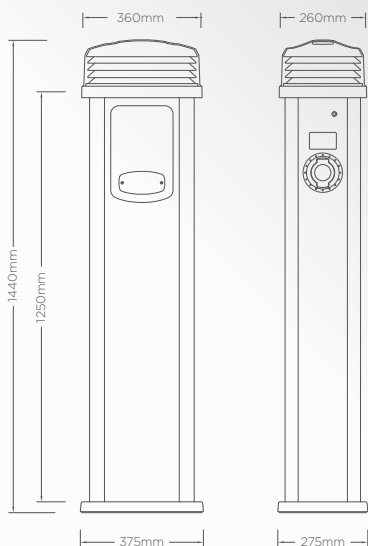
Rolec EV chargepoints are designed, developed and manufactured in the UK and come with a 3 year warranty included as standard, for added peace of mind on your investment.

# Specifications

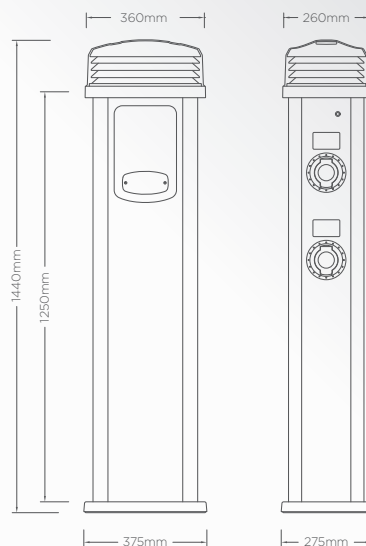
## Product Overview:

	Connection Type	Charging Output	Input Supply	Unit Colour	Product Code
Single Phase Units	1x Type 2 (IEC 62196) charging socket	Up to 7.4kW (32A)	1x 32A Single Phase 230V AC (±10 %) 50/60Hz	● Black	ROLEC0411B
				● Grey	ROLEC0411G
				○ White	ROLEC0411W
	2x Type 2 (IEC 62196) charging sockets	Up to 7.4kW (32A) per socket	1x 63A Single Phase 230V AC (±10 %) 50/60Hz	● Black	ROLEC0421B
				● Grey	ROLEC0421G
				○ White	ROLEC0421W
4x Type 2 (IEC 62196) charging sockets	Up to 7.4kW (32A) per socket	2x 63A Single Phase 230V AC (±10 %) 50/60Hz	● Black	ROLEC0425B	
			● Grey	ROLEC0425G	
			○ White	ROLEC0425W	
Three Phase Units	1x Type 2 (IEC 62196) charging socket	Up to 22kW (32A)	1x 32A Three Phase 400V AC (±10 %) 50/60Hz	● Black	ROLEC0413B
				● Grey	ROLEC0413G
				○ White	ROLEC0413W
	2x Type 2 (IEC 62196) charging sockets	Up to 22kW (32A) per socket	1x 63A Three Phase 400V AC (±10 %) 50/60Hz	● Black	ROLEC0423B
				● Grey	ROLEC0423G
				○ White	ROLEC0423W

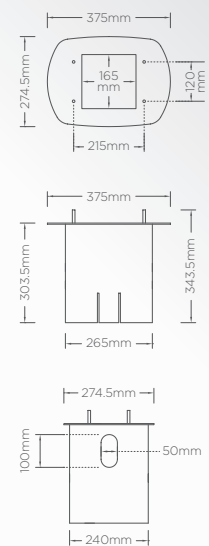
Quantum 1way/2way unit:



Quantum 4way unit:







Ground mounting base:



# Specifications

## Technical Data:

<b>User Interface</b>	<ul style="list-style-type: none"> <li>• Mobile app</li> <li>• RFID reader (MIFARE ISO/IEC 14443 A)</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>• TruePEN 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, subscription required)</li> <li>• Wi-Fi 802.11 b/g/n 2.4 GHz</li> <li>• RJ45 Ethernet connection (2x connections for ROLECO425B, ROLECO425G, ROLECO425W)</li> <li>• Bluetooth Low Energy (BLE 4.1) (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>	<ul style="list-style-type: none"> <li>• 360° Low energy LED</li> <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>	< 7.5W (per socket, excluding lighting)
<b>Dimensions</b>	375mm x 1440mm x 275mm (W x H x D)
<b>Weight</b>	< 32kg (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>• 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>• 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>	 Black  Grey  White  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) Ex. Schedule 1</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</li> <li>• Safety Compliance (LVD) – EN 62368-1:2014, 2014/35/EU, SI 2016/1101</li> <li>• Communications / RED – EN 62311:2008, 2014/53/EU, SI 2017/1206</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>• RoHS – 2011/65/EU, SI 2012/3032</li> <li>• REACH – 1907/2006, REACH etc. (Amendment) Regulations 2021</li> <li>• Certification Markings – 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
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 3 Phase Type 2 to Type 2 charging cable
EVPP0108	10m 32A 3 Phase Type 2 to Type 2 charging cable (Other cables are available, including Type 1 options)
ACSR0125	100A 16mm <sup>2</sup> Screened CT Clamp with 10m Cable



RFID0010  
RFID0020



EVCB0040

EVPS0010



GMQR0010



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.

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# BUSINESSES

WORKPLACE | COMMERCIAL | DEVELOPMENT | RESIDENTIAL | DESTINATION | FLEET



## VendElectric

- Full control of your own chargepoint network
- A future-proof and scalable solution
- Mapped network
- Customisable tariffs
- Generate revenue
- Smart reporting and analytical feedback
- Fleet management solutions
- Automatic fault notifications
- Over-the-air updates
- Optional electrical load management:  
(Ideal for sites where the collective load may be greater than the electrical supply)



Other preferred back-office partners:

**MONTA**

**Fuuse**

**ChargePlace Scotland**  
electric vehicle charging

## Managing chargepoints

Rolec EV's range of AC fast and DC rapid chargepoints are suitable for all types businesses. OCPP integration allows these units to be managed by any compliant back-office, including Rolec EV's own management platform, VENDELECTRIC.

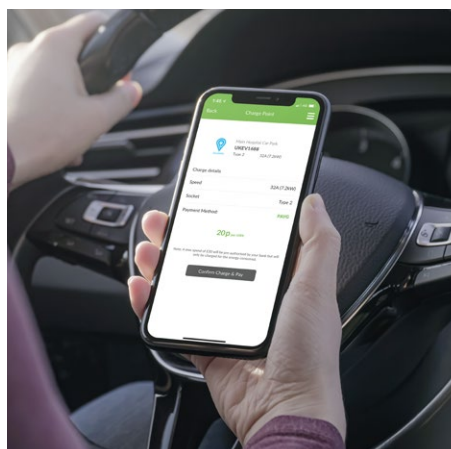
## Operating chargepoints

There are 3 quick and easy ways for drivers to operate the chargepoints: mobile app, RFID cards and fobs or plug & charge.

### VendElectric app

Manage your charging activity whilst benefiting from an variety of features:

- Easily find and navigate to a chosen destination using the chargepoint map
- Sort and save favourite locations
- View current & past charge sessions
- Review statistics and analytical data
- Exportable data  
(ideal for submitting benefit-in-kind claims)
- Live charge session notifications
- Virtual wallet for quick activation
- Multiple EVs can be added and used on a single registered account



DOWNLOAD THE APP



### RFID card/fob

Ideal for workplace employees who frequently use the same charging points, whether for their own or their company vehicle. Hosts can assign an RFID to either the driver or a vehicle (VRM).



▶ For more about **VendElectric**, including data management pricing & plans, visit [www.rolecserv.com/chargepoint-management-system](http://www.rolecserv.com/chargepoint-management-system)





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>

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

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EVQD-V01-R0 Quantum Data Sheet



Manufactured  
in the UK

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