



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

ROLEC

QUANTUM

Intelligent EV charging pedestal



Designed &
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, this unit is an ideal plug-and-go or pay-to-charge solution. Offering a 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 or 2way versions, providing up to 22kW superfast charging.



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Contactless payment
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Product features

- Plug & go, app, contactless payment (model dependent), or RFID controlled charging
- Choose from 1x or 2x 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 (integrates with any chargepoint management system)
- 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 dependent*)
- 5" LCD Screen (model dependent)
- Cable lock security feature (can be permanently locked by owner)
- LED amenity lighting head (Photocell controlled)
- MID-approved energy metering
- 4G / Wi-Fi / Ethernet connectivity
- Conforms with PAS 1899 accessible charging standard (model dependent)
- Strong and durable IP54 / IK10 rated
- Surface or roof mountable
- OZEV grant fundable (UK only)
- Designed & manufactured in the UK



*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 & go, app, RFID card/fob, or optional contactless payment.



Funding options available

Speak to us about flexible EV infrastructure investment opportunities.



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



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 & go 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
Colour options	● ●	● ●	● ●	● ● ● ●
Product codes	ROLEC3411B ROLEC3421B ROLEC3413B ROLEC3423B	ROLEC2411B ROLEC2421B ROLEC2413B ROLEC2423B	ROLEC1411B ROLEC1421B ROLEC1413B ROLEC1423B	ROLEC0411B/G/W ROLEC0421B/G/W ROLEC0413B/G/W ROLEC0423B/G/W

Specifications

Product Overview

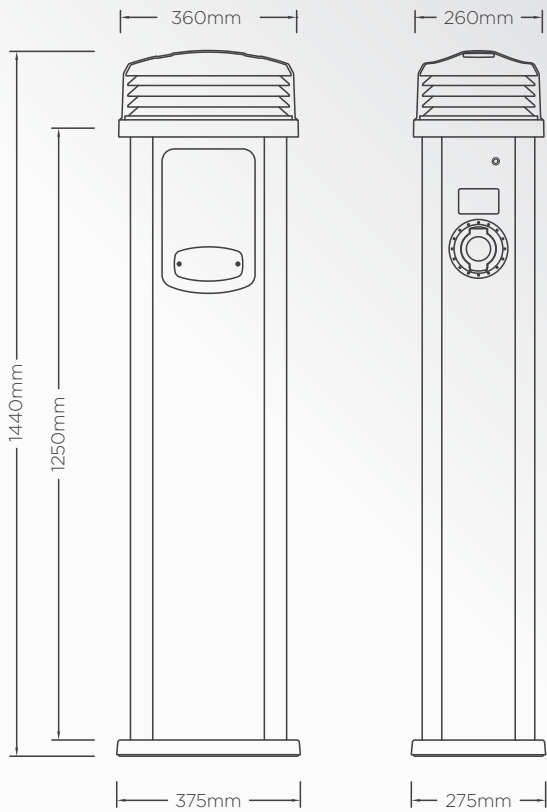
	Connection Type	Charging Output	Input Supply	Unit Colour	Additional Features	Product Code
Single Phase Units	1x Universal charging socket	Up to 7.4kW (32A)	1x Up to 32A Single Phase* 230V AC (±10 %) 50/60Hz	● Black	LCD screen & contactless payment terminal	ROLEC3411B
					LCD screen	ROLEC2411B
					Contactless payment terminal	ROLEC1411B
					None	ROLEC0411B
					None	ROLEC0411G
	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
					None	ROLEC0421G
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
					None	ROLEC0413G
	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
					None	ROLEC0423G
				○ White	None	ROLEC0413W
				○ White	None	ROLEC0423W

*Should supply be limited, chargepoint(s) can be configured to any output (min. 6A)

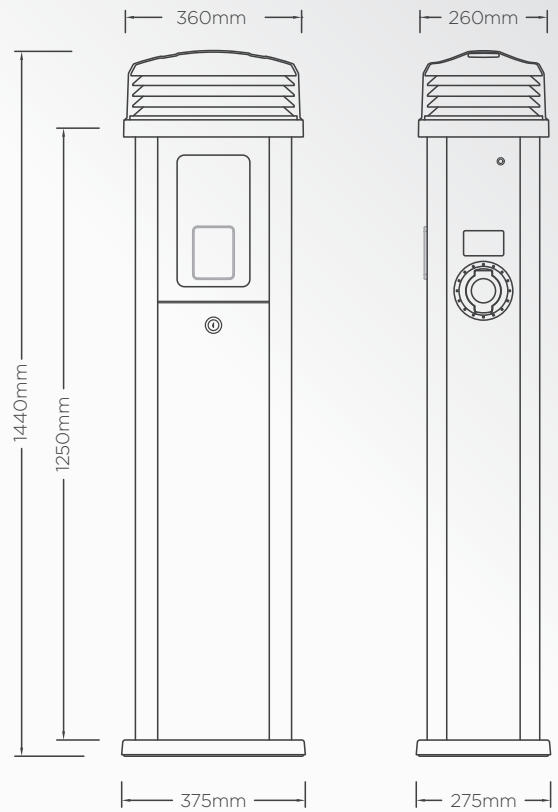
Specifications

Unit Dimensions

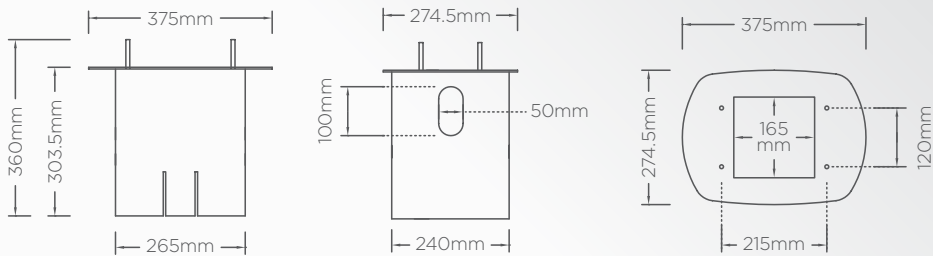
Quantum single/dual unit:



Quantum single/dual unit with door:



Ground mounting base:



Specifications

Technical Data

User Interface	<ul style="list-style-type: none"> • Mobile app • Contactless card payment terminal (EMVCo. L1 v3.0 Certified) (model dependent) <ul style="list-style-type: none"> • RFID reader (ISO14443 A & B (T=CL) Desfire EV2/3 & Mifare Classic protocols) • NFC (ISO18092) • 5" LCD display screen (model dependent) • RFID reader (MIFARE ISO/IEC 14443 A) (model dependent) • Plug & go • RGB LED status indicator halo(s) - configurable
Charge Protocol	Mode 3 (IEC 61851-1)
Built-in Protection	<ul style="list-style-type: none"> • AC overload & fault current protection - 40A 30mA Type A RCBO (per socket) • DC fault protection - 6mA • Lightning surge, over temperature protection • PME fault detection - No earth electrode/rod required • Supports automatic dynamic load balancing (may require additional hardware) • Supports static load management (software configurable)
Required External Protection	<ul style="list-style-type: none"> • Over current protection - A suitably rated MCB or Type-A 30mA device is to be installed at source (dependent on cable type and/or route) • Surge Protection - May be required depending on the installation
Cable Terminals	<ul style="list-style-type: none"> • Single Phase - 3x 50mm 1P + N + E • Three Phase - 5x 50mm 3P + N + E
Communications	<ul style="list-style-type: none"> • 4G LTE Cat-1 (built-in nano SIM(s), subscription required) <ul style="list-style-type: none"> • LTE FDD: B1/B3/B5/B7/B8/B20/B28 • GSM: B2/B3/B5/B8 • Wi-Fi 802.11 b/g/n 2.4 GHz (2412-2472 MHz / 2422-2462 MHz) • NFC 13.56 MHz • RJ45 Ethernet connection • Bluetooth Low Energy (BLE 4.1) 2402-2480 MHz (for installer configuration purposes) • OCPP 1.6J • Cyber security - Data encryption level TLS 1.2
Energy Metering	Integrated Class 1 MID compliant metering
Amenity Lighting	<ul style="list-style-type: none"> • 360° Low energy LED • Rating - 1x GX53 9W LED, 230-240V AC • Colour temperature - 4000K • Protection - 6A 30mA Type A RCBO
Standby Power Consumption	<ul style="list-style-type: none"> • Charging circuits - < 7.5W (per socket) • Panel heater - 8W • Lighting - 9W • LCD display screen - < 3W (where fitted) • Contactless card payment terminal - 18W (where fitted)
Dimensions	375mm x 1440mm x 275mm (W x H x D)
Weight	< 35kg (model dependent)
Environmental	<ul style="list-style-type: none"> • Ingress protection - Enclosure IP66, Socket IP54 • Impact protection - IK10 • Security - Dual tamper and breach notifications • Operating temperature - -30°C to +50°C • Operating humidity - 5% to 95%
Materials	<ul style="list-style-type: none"> • Substructure - 2.5mm 6063 extruded Aluminium, 25 micron hard anodised protective finish • Panel - 3.2mm Aluminium composite • Door - Heavy duty 1.5mm Steel with 45-55 microns of Zinc primer and corrosive resistant, textured Polyester powder coating finish (where fitted) • Fascia - Tempered glass (where fitted) • Lens - High impact resistant 3mm Polycarbonate • Base - High impact resistant, heavy-duty 5mm Polycarbonate • Lid/collar/louvres - High impact resistant Polycarbonate
Unit Colour	 Black Grey & White (model dependent) Other colours available upon request
Certifications & Compliances	<ul style="list-style-type: none"> • EV Charging Compliance - EN 61851-1:2019, EN 61851-22:2002 • Smart Charge Points - (SI 2021/1467) • Wiring Regulations - BS 7671:2018+A2:2022 • 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)^P • Safety Compliance (LVD) - EN 62368-1:2014, 2014/35/EU, SI 2016/1101, EN 60950-22:2006^P • 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)^P • Environmental Protection - BS EN 60529:1992+A2:2013 • Impact Rating - BS EN 62262:2002+A1:2021 • Metering - 2014/32/EU, SI 2016/1153 • Accessibility - PAS 1899 accessible charging standard (model dependent) • RoHS - 2011/65/EU, SI 2012/3032 • REACH - 1907/2006, REACH etc. (Amendment) Regulations 2021 • Payter Payment Device - CE, FCC, RoHS, WEEE , REACH, EMVCo, PCI-PTS 6.x, TQM, MasterCard, VISA, American Express, Discover, Diners ^P • Certifications - CE & UKCA
Warranty	3 years



Options & accessories

Product Code	Item Description
RFID0010	RFID card
RFID0020	RFID fob
GMQR0011	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)
ROLEC5000	TAP & CHARGE remote payment terminal
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)
ACSR0525	Perific Max Fuse Protection Device with 3x 900A up to 36mm ² current sensors
ACSR0535	Perific Max Fuse Protection Device with 3x 900A up to 100mm ² current sensors
ACSR0545	Perific Max LAN accessory input kit
ACSR0125-F	100A up to 35mm ² screened CT clamp with 10m cable & connector



NEW
Tethered models available upon request



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.



TAP & CHARGE
Remote payment terminal
Hassle-free transactions across multiple EV chargers. Ideal solution for commercial and public locations.

ROLEC5000

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Chargepoint management & operation



Integrated with over 45 CPMS partners around the globe

Approved CMS partners:

Monta	wattif
Fuuse	VIRTA
CLENERGY EV	drivz
AMPECO	greenflux®
CURRENT	ArtoEnergy
connekt	Spirii
ROAM	NOR+HE
STUART	wevo
ChargePanel	MOBILITY 46
RE&GO	+ many more



Chargepoint operators

ROLEC EV chargepoints boast an array of intelligent features. When combined with any approved OCPP compliant chargepoint management system (CPMS), chargepoint operators will have the ability to deploy and self-manage their own public and/or private EV charging network. Ideal for workplace, fleet, commercial and residential locations.

- Businesses can easily manage their network of chargepoints
- Conveniently set chargers to be private or publicly accessible
- Offer pay-to-charge solutions and benefit from generating additional revenue
- Set custom & flexible tariffs for different customer or charger groups
- Access advanced features including dynamic load management (DLM)
- Users can operate chargepoints via mobile app, RFID, contactless payment (model dependent), or a remote contactless payment terminal (contact ROLEC for more information about the TAP & CHARGE solution)
- 24/7 support for users and operators of the chargepoints



NEED ADVICE?

Speak to a member of the team to find the right solution for you



Chargepoint users

Take full control of your EV charging experience and maximise the intelligent features of the chargepoint management system.

- Locate and navigate using the chargepoint map
- Easily initiate and pay for charges
- Real-time information to maximize your charging experience
- Access to benefits and rewards for EV drivers
- 24/7 support for help when you need it most



Please Note: All chargepoint management and operation features are subject to the specified CPMS



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EVQD-V02-R3 Quantum Data Sheet



Designed &
Manufactured
in the UK

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