ROLEC

BASICCHARGE

Intelligent EV charging pedestal

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The BASICCHARGE is a simplistic and affordable EV charging pedestal. This versatile 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 or 2way versions, providing up to 22kW superfast charging.

Product features

- Plug & charge, mobile app 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
- 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
- Strong and durable IP54 / IK10 rated
- Surface or root mountable
- OZEV grant fundable (UK only)
- Designed & manufactured in the UK

OCPP 1.6 compliant

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

Easy to operate

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

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

UP TO
22kW

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

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

2 WAY
CHARGING

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

The perfect EV charging pedestal solution for fleet, workplace and private 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 is fully UK Smart Charge Point Regulation compliant.

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.
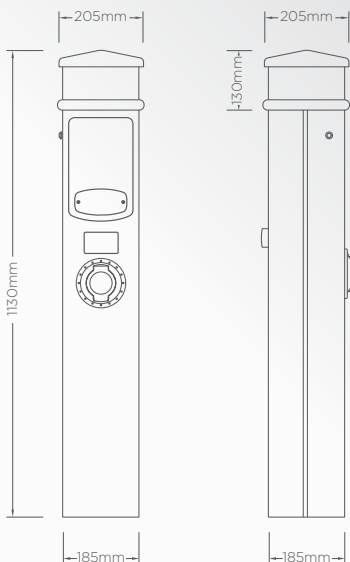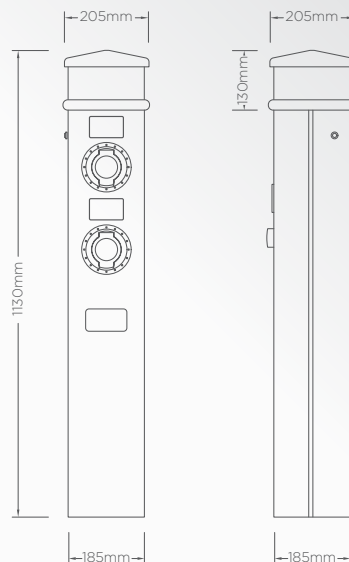
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Specifications

Product Overview

	Connection Type	Charging Output	Input Supply	Unit Colour	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	ROLEC0211B
				● Grey	ROLEC0211G
				○ White	ROLEC0211W
	2x Universal charging sockets	Up to 7.4kW (32A) per socket	1x Up to 63A Single Phase* 230V AC (±10 %) 50/60Hz	● Black	ROLEC0221B
				● Grey	ROLEC0221G
				○ White	ROLEC0221W
Three Phase Units	1x Universal charging socket	Up to 22kW (32A)	1x Up to 32A Three Phase* 400V AC (±10 %) 50/60Hz	● Black	ROLEC0213B
				● Grey	ROLEC0213G
				○ White	ROLEC0213W
	2x Universal charging sockets	Up to 22kW (32A) per socket	1x Up to 63A Three Phase* 400V AC (±10 %) 50/60Hz	● Black	ROLEC0223B
				● Grey	ROLEC0223G
				○ White	ROLEC0223W

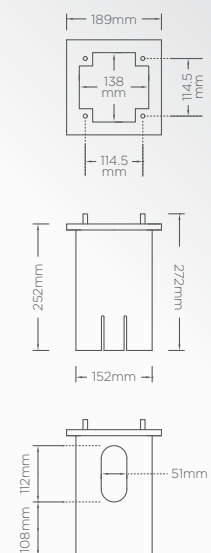*Chargepoint(s) will downrate if the input supply is lower than the maximum charging output

BasicCharge 1way unit:

205mm
205mm
130mm
1130mm
185mm
185mm

BasicCharge 2way unit:

205mm
205mm
130mm
1130mm
185mm
185mm

Ground mounting base:

189mm
138 mm
114.5 mm
114.5 mm
252mm
272mm
152mm
112mm
51mm
108mm

Specifications

Technical Data	
User Interface	• Mobile app • RFID reader (MIFARE ISO/IEC 14443 A) • Plug & charge • RGB LED status indicator halo(s) – configurable
Charge Protocol	Mode 3 (IEC 61851-1)
Built-in Protection	• 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	• 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	• Single Phase – 3x 50mm 1P + N + E • Three Phase – 5x 50mm 3P + N + E

Communications	• 4G LTE Cat-1 (built-in nano SIM, subscription required)
	  • 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	360° Low energy LED • Rating – 2x G9 2.3W LED, 230-240V AC • Colour temperature – 5000k • Protection – 6A 30mA Type A RCBO
Standby Power Consumption	• Charging circuits – < 7.5W (per socket) • Panel heater – 8W • Lighting – 4.6W
Dimensions	205mm x 1130mm x 205mm (W x H x D)
Weight	< 15kg (model dependant)
Environmental	• Ingress protection – Enclosure IP65, Socket IP54 • Impact protection – IK10 • Security – Dual tamper and breach notifications • Operating temperature – -30°C to +50°C • Operating humidity – 5% to 95%
Materials	• Substructure – Hot-dipped Galvanised Steel • Panel – 3.2mm Aluminium composite • Lens – High impact resistant 3mm Polycarbonate • Lid/collar – ABS Granulate Natural Polyethylene
Unit Colour	● Black ● Grey ○ White ⊙ Other colours available upon request
Certifications & Compliances	• 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 • Safety Compliance (LVD) – EN 62368-1:2014, 2014/35/EU, SI 2016/1101 • 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) • Environmental Protection – BS EN 60529:1992+A2:2013 • Impact Rating – BS EN 62262:2002+A1:2021 • Metering – 2014/32/EU, SI 2016/1153 • RoHS – 2011/65/EU, SI 2012/3032 • REACH – 1907/2006, REACH etc. (Amendment) Regulations 2021 • Certification Markings – CE & UKCA
Warranty	3 years

Options & accessories

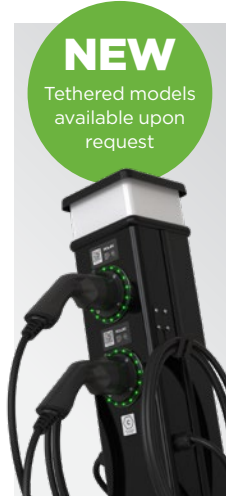| Product Code	Item Description
RFID0010	RFID card
RFID0020	RFID fob
GMCP0010	Ground mounting base for BasicCharge pedestal
EVCB0020	Root mount protection barrier – 48mm
EVCB0040	Surface mount protection barrier – 48mm
EVPS0010	EV parking sign – A4 landscape
	(Other sizes are available)
ROLEC5000	TAP & 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)
ACSR0520	Perific fuse protection device – 3x 36mm current sensors
ACSR0530	Perific fuse protection device – 3x 100mm current sensors
ACSR0125	100A up to 35mm^2 screened CT clamp with 10m cable

GMCP0010

NEW
Tethered models available upon request

RFID0020

ACSR0530

EVCB0040

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.

TAP & CHARGE
Remote payment terminal

Hassle-free transactions across multiple EV chargers. Ideal solution for commercial and public locations.

ROLEC5000

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ROLEC

Chargepoint management & operation

Integrated with over 40 CPMS partners around the globe

Approved CMS partners:

MONTA | wattif
Fuuse | VIRTA
ClenergyEV | driivz
AMPECO | greenflux
CURRENT | ArtofEnergi
connekt | Spirii
ROAM | NORTHE
STUART ENERGY | 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.

- Remotely control your home EV charging via mobile app
- Prioritise lower costs, lower CO_2 or only using renewable energy
- Schedule charges so your car is ready when you are
- Easily locate and navigate to public chargepoints via the road map
- 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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The latest version of this publication can be downloaded at www.rolecserv.com/downloads-ev-charging

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

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EVBD-V02-R9 BasicCharge Data Sheet

**Designed &
Manufactured
in the UK**

ROLEC

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