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ULTRACHARGE 160

Intelligent ultra-rapid EV charging station

ROLEC*EV*

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Introducing our latest DC ultra-rapid charging station, ULTRACHARGE 160. This intelligent modular and scalable charger has the ability to be upgraded in modules of 20kW, all the way up to 160kW, making it the perfect futureproof and cost-effective solution for public, fleet and highway infrastructure deployment.

This high powered, advanced and robust charger is available in four standard power configurations; choose from 60kW, 80kW, 120kW or 160kW.

Offering convenient charging times for every EV with the ability to charge two vehicles simultaneously. Charging can be activated via either plug & charge, mobile app, RFID or contactless payment.

Designed with installers and chargepoint owner / operators in mind, these chargers are easy to install, maintain and service.

Product features

- Plug & charge, app, RFID or contactless payment controlled charging
- Offer up to 2x DC charging outputs
- Up to 160kW charging speeds
  (CHAdeMO up to 62.5kW | CCS2 up to 160kW)
- Upgradeable power modules
- OCPP 1.6 compliant (can integrate with any back-office)
- Over-the-air firmware / software updates
- Intelligent dynamic power sharing
- Supports static load management
- 7" HD user interface touch screen
- Integrated RFID / NFC / contactless card payment terminal
- 4G / Ethernet connectivity
- 96% Peak efficiency
- Ultrawide constant power output voltage range 300V – 1000V
- Under/overvoltage, DC overcurrent, over-temp & surge protection
- 5m charging cables (4.5m external)
- Emergency stop
- IP55, IK10 protection rating
- Stocked in the UK by Rolec EV

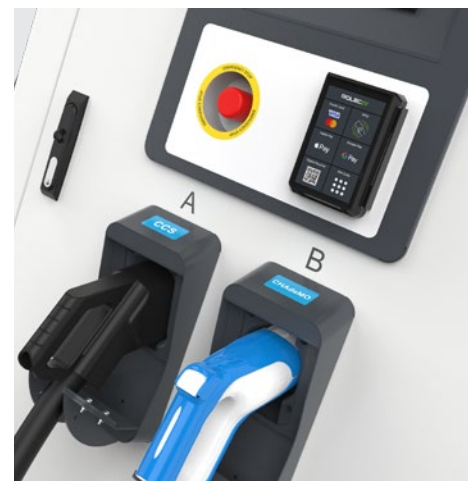Rolec EV's chargepoint management platform:

VendElectric

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

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

Reliable & scalable EV charging solution

Offers world-class quality and reliability through field-proven infrastructure solutions.

4G and Ethernet enabled

Complete with secure 4G 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.

DC Rapid charging connectors

Up to 160kW CCS charging connector(s) and/or up to 62.5kW CHAdeMO charging connector.

The details

UP TO
160KW

A variety of power configurations from 60kW to 160kW, flexible power distribution and dual connector models which can automatically switch the power according to the vehicle.

Choose from CCS2-dual and CCS2+CHAdeMO-dual outlets.

MAXIMISE YOUR
ROI

300V-1000V continuous power dual output segment, improves the power utilisation ratio of the DC charger, speeding up charging times and maximising revenue.

Delivers up to 80% charge in under 20 minutes.

POWER
SHARING

The ULTRACHARGE 160 boasts the most advanced functionality for intelligent dynamic power sharing. Ideal for sites which require two vehicles to charge simultaneously.

SAFE AND
SECURE

Packed with protection features including; under/overvoltage, DC overcurrent, over-temperature & surge protection.

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

WIDE
OUTPUT RANGE

Ultra wide output voltage range 200V-1000V.

Not only can it meet the low-voltage charging needs of conventional EVs, but also meet the requirements for charging larger commercial vehicles such as HGVs and buses.

ROLEC**EV**

Specifications

Product Overview:							
Station Level	Connection Type	Power Allocation	Input Current	Input Power	Unit Colour		Product Code
60kW DC	1x CCS2 1x CHAdeMO	1x 60kW 1x 40kW / 1x20kW*	112A	67kVA	○ White		EVDC2010
80kW DC	2x CCS2	1x 80kW 2x 40kW*	150A	89kVA	○ White		EVDC2020
120kW DC	2x CCS2	1x 120kW 2x 60kW*	224A	133kVA	○ White		EVDC2030
160kW DC	2x CCS2	1x 160kW 2x 80kW*	299A	177kVA	○ White		EVDC2040

*When 2 vehicles are charging simultaneously

Flexible configuration

All units can be configured to a lower output to meet site power limitations. When power output is reduced, the unit's dynamic power sharing will automatically adjust accordingly. For example:

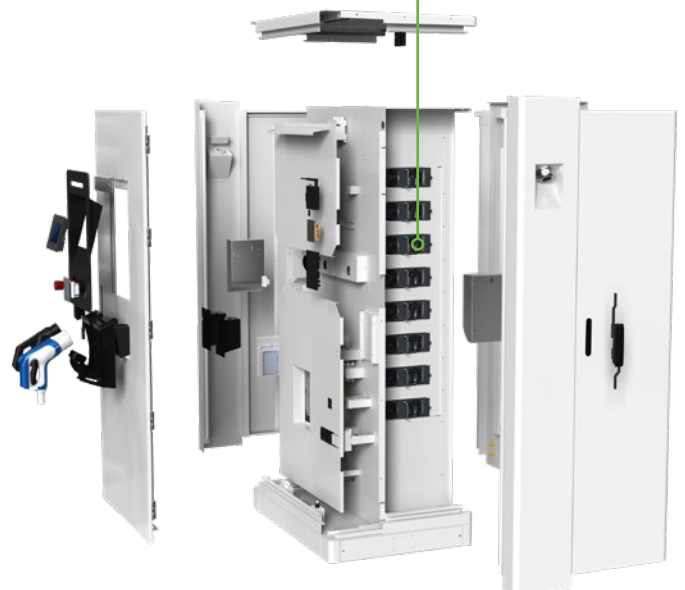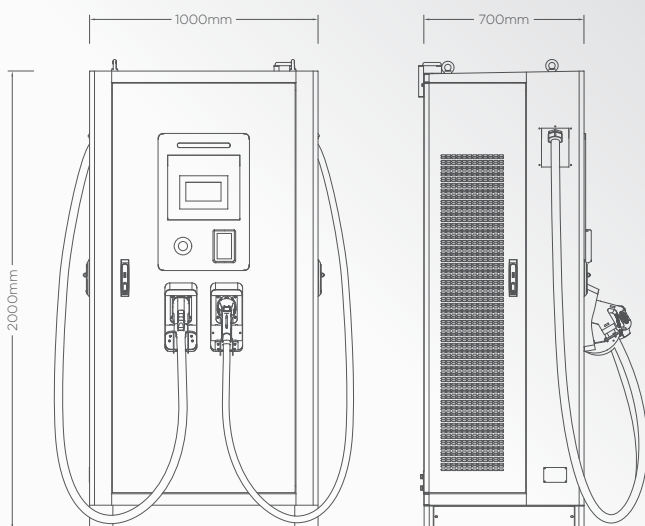| Model	Power Allocation
120kW model configured to 100kW	1x 100kW 2x 50kW*

*When 2 vehicles are charging simultaneously

Easily upgradeable

20kW power modules for future scalability.

UltraCharge 160:

1000mm
700mm
2000mm

Specifications

Technical Data:

User Interface	• 7 inch HD high-contrast touchscreen display • Contactless card payment terminal • RFID reader (ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare 1) • NFC • Plug & charge (ISO 15118) • RGB LED status indicator • Supported Languages – English (supports customising of other languages, available on request)
Charge Protocol	Mode 4 (IEC 61851-1)
Protection	• Undervoltage & overvoltage protection • DC overcurrent protection • Over temperature protection • Surge protection device • Emergency stop button • Optional tilt, flood and smoke detection • Advanced dynamic power balancing • Supports static load management (software configurable)
Input	• AC Input Voltage – 400V ± 10 % • Input Frequency – 50 / 60 Hz • Input Type - 3P + N + PE • Power Factor – 0.99 • THDi - <5% • Grounding type - TT, TN-S, TN-CS
Output	• Connector Options - CCS2 and CHAdeMO (see page 5 for connector configurations) • DC Output Voltage Range – CCS2: 200 to 1000 VDC, CHAdeMO: 200 to 500 VDC (300 to 1000 VDC is the output voltage of constant power output) • Maximum Output Current – CCS: 200A, CHAdeMO: 125A • Rated Power – DC: Up to 160kW (model dependent) • Peak Efficiency - 96% • Cable Length - 5 m (4.5 m exposed from the charger)
Communications	• 4G • RJ45 Ethernet connection • OCPP 1.6J
Dimensions	1000mm x 2000mm x 700mm (W x H x D)
Weight	< 513kg (model dependant)
Environmental	• Ingress Protection – IP55 • Enclosure Protection – IK10 • Operational Altitude – <2000 m • Operating Temperature – -25 ºC to +45 ºC (full power) • Temperature Derating - Up to 45 ºC: 100% output power, 45-65 ºC interval, linear power limit, 65 ºC or more, module shutdown protection • Storage Temperature Range – -30 ºC to +70 ºC • Humidity – 5%-95% relative humidity, non-condensing • Cooling Method– Air cooled
Materials	• Body – 304 stainless steel • Finish – all-weather powder-coated finish
Unit Colour	◯ White 🌈 Other colours and branding options are available upon request
Certifications & Compliances	• EV Charging Compliance – EN 61851, IEC 62196, DIN 70121, ISO 15118 Plug & Charge • EMC Compliance – Class A (industrial) • Certifications – CE, UKCA, TUV, TR25, RCM UK CA CE
Warranty	2 years (extended warranty available upon request)

BUSINESSES

WORKPLACE | COMMERCIAL | DEVELOPMENT | RESIDENTIAL | DESTINATION | FLEET

Managing chargepoints

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

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

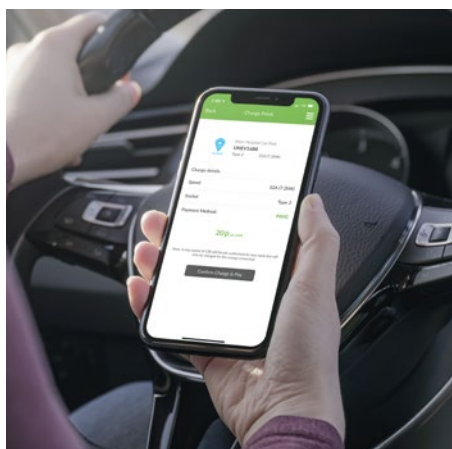ChargePlace Scotland
electric vehicle charging

Operating chargepoints

There are four quick and easy ways for drivers to operate the chargepoints: contactless, 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

GET IT ON Google Play

Download on the App Store

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**

EVUCD-V01-R1 UltraCharge 160 Data Sheet

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