



ROLECEV | SINEXCEL

# ULTRACHARGE 160

Intelligent ultra-rapid EV charging station



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the UK by  
ROLECEV

# ULTRACHARGE 160

Intelligent ultra-rapid EV charging station

An intelligent modular and scalable DC ultra-rapid charging station, the ULTRACHARGE 160 is a futureproof and cost-effective solution for public, fleet and highway infrastructure deployment.

This high powered, advanced and robust charger is available in two standard power configurations; 160kW or a 120kW version which can be upgraded in the future with the simple addition of extra 20kW power modules.

Offering convenient charging times for every EV with the ability to charge two vehicles simultaneously. Charging can be activated via either mobile app, RFID, and supports plug & charge (ISO15118). A contactless payment terminal option is also available.

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



# Product features

- Plug & charge, mobile app, or RFID controlled charging
- Offers 2x DC charging outputs
- Up to 160kW charging speeds
- Upgradeable power modules
- OCPP 1.6 compliant (OCPP 2.0.1 upgradable)
- Over-the-air firmware / software updates
- Intelligent dynamic power sharing
- Supports static and dynamic load management
- 15" HD user interface touch screen with advertising capability
- 4G / Ethernet connectivity
- 96% Peak efficiency
- Ultrawide constant power output voltage range 300V - 1000V
- Under/overvoltage, DC overcurrent, over-temp & surge protection
- 5m 300A rated charging cables (4.5m external) capable of delivering 120kW charge rate to a standard 400V vehicle
- Optional 7m cables also available (6.5m external)
- Optional cable management system
- Optional RFID / NFC / contactless card payment terminal
- Conforms with PAS 1899 accessible charging standard
- Strong and durable IP55 / IK10 rated


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**MONTA**

Other preferred back-office and mobile app partners:

**Fuuse**


**wattif**

**ChargePlace Scotland**  
electric vehicle charging


**OCPP 1.6 compliant**  
**(Upgradable to OCPP 2.0.1)**

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




**Easy to operate**

User friendly interface includes: app, RFID, supporting plug & charge, and optional contactless payment.




**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.



**Integrated advertising screen**

Maximise visibility and engagement by utilising the HD screen to showcase advertising or branding.



**DC Rapid charging connectors**

Up to 160kW CCS2 charging connectors. Alternative configurations are available.

## The details

### UP TO 160KW

Using 20kW power modules, this futureproof ultra-rapid charging unit is upgradable from 120kW to 160kW charging speeds.

Dual 5m 300A CCS2 charging cables as standard. CHAdeMO outlet models available upon request.

### 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 features cutting-edge intelligent dynamic power sharing, automatically adjusting power distribution based on each vehicle's needs.

Perfect for sites where two vehicles need 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.

# Specifications

## Product Overview

Station Level	Connection Type	Power Allocation	Input Current	Input Power	Unit Colour	Product Code
120kW DC	2x CCS2	1x 120kW 2x 60kW*	224A	133kVA	○ White	EVDC8010
160kW DC	2x CCS2	1x 160kW 2x 80kW*	299A	177kVA	○ White	EVDC8020

\*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

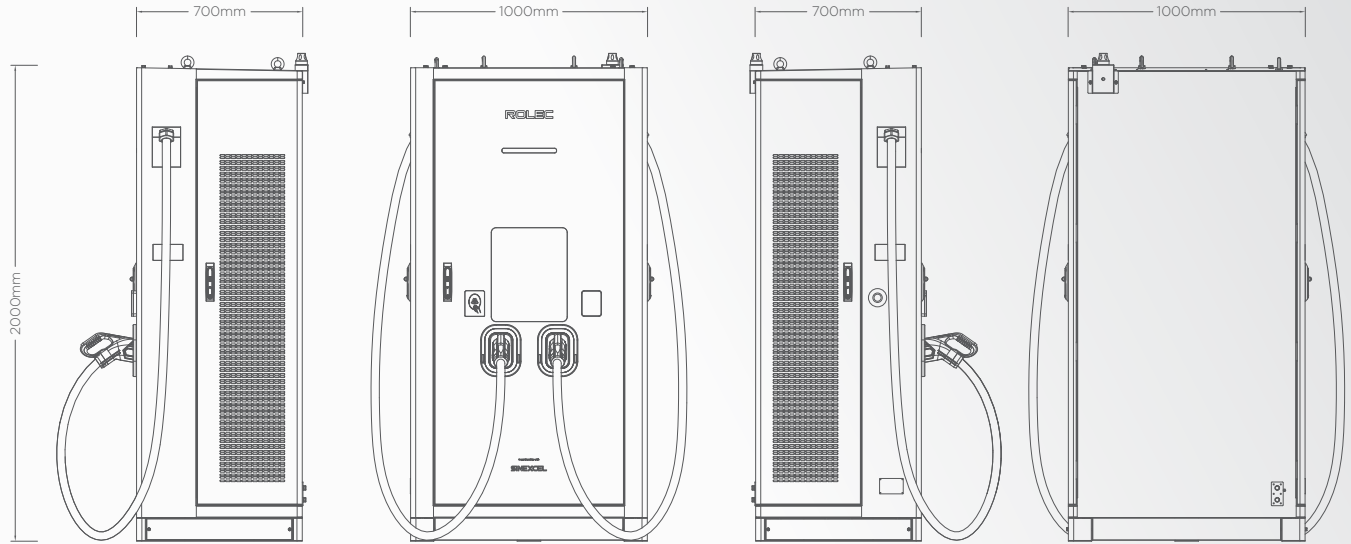
20kW power modules for future scalability.



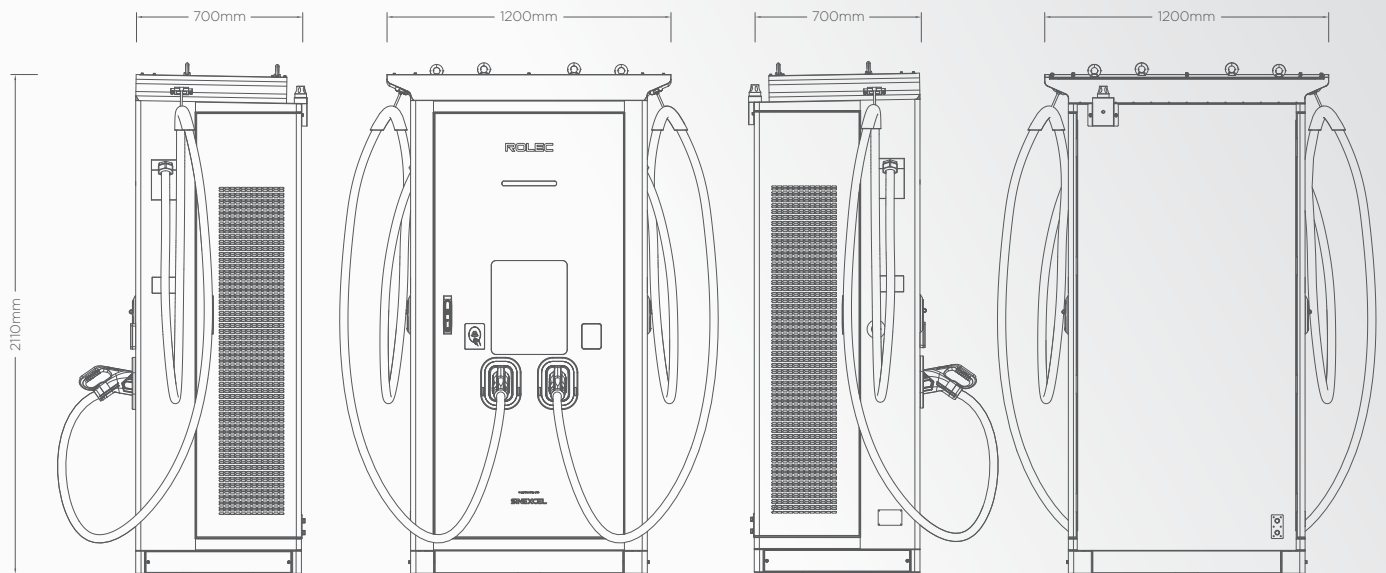
# Specifications

## Unit Dimensions

UltraCharge 160:




UltraCharge 160 with Cable Management System (CMS):



# Specifications

## Technical Data

<b>User Interface</b>	<ul style="list-style-type: none"> <li>• 15 inch HD touchscreen display</li> <li>• RFID reader (ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare 1)</li> <li>• Optional NFC contactless card payment terminal</li> <li>• Plug &amp; charge (ISO 15118)</li> <li>• RGB LED status indicator</li> <li>• Supported Languages - English (supports customising of other languages, available on request)</li> </ul>
<b>Charge Protocol</b>	Mode 4 (IEC 61851-1)
<b>Protection</b>	<ul style="list-style-type: none"> <li>• Undervoltage &amp; overvoltage protection</li> <li>• DC overcurrent protection</li> <li>• Over temperature protection</li> <li>• Surge protection device</li> <li>• Emergency stop button</li> <li>• Optional tilt, flood and smoke detection</li> <li>• Advanced dynamic power balancing</li> <li>• Supports static and dynamic load management (software configurable) (may require additional hardware)</li> </ul>
<b>Input</b>	<ul style="list-style-type: none"> <li>• AC Input Voltage - 400V ± 10 %</li> <li>• Input Frequency - 50 / 60 Hz</li> <li>• Input Type - 3P + N + PE</li> <li>• Power Factor - 0.99</li> <li>• THDi - &lt;5%</li> <li>• Grounding type - TT, TN-S</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>• Connector Options - CCS2 (other configurations available on request)</li> <li>• DC Output Voltage Range - 200 to 1000 VDC (300 to 1000 VDC is the output voltage of constant power output)</li> <li>• Maximum Output Current - 300A</li> <li>• Rated Power - DC: Up to 160kW (model dependent)</li> <li>• Peak Efficiency - 96%</li> <li>• Cable Length - 5m (4.5m exposed from the charger) (extended 7m cables also available)</li> </ul>
<b>Communications</b>	<ul style="list-style-type: none"> <li>• 4G</li> <li>• RJ45 Ethernet connection</li> <li>• OCPP 1.6J</li> <li>• OCPP2.0.1 upgradable</li> </ul>
<b>Dimensions</b>	1000mm x 2000mm x 700mm (W x H x D)
<b>Weight</b>	< 480kg (model dependent)
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Ingress Protection - IP55</li> <li>• Enclosure Protection - IK10</li> <li>• Operational Altitude - &lt;2000m</li> <li>• Operating Temperature - -25°C to +65°C (full power)</li> <li>• Temperature Derating - Up to 50°C: 100% output power, 50-65°C interval, linear power limit, 65°C or more, module shutdown protection</li> <li>• Storage Temperature Range - -30°C to +70°C</li> <li>• Humidity - 5%-95% relative humidity, non-condensing</li> <li>• Cooling Method - Air cooled</li> </ul>
<b>Materials</b>	<ul style="list-style-type: none"> <li>• Body - Stainless steel</li> <li>• Finish - All-weather powder-coated finish</li> </ul>
<b>Unit Colour</b>	<input type="radio"/> White  Other colours and branding options are available upon request
<b>Certifications &amp; Compliances</b>	<ul style="list-style-type: none"> <li>• EV Charging Compliance - EN 61851, IEC 62196, DIN 70121, ISO 15118 Plug &amp; Charge, PAS 1899:2022</li> <li>• EMC Compliance - Class A (industrial)</li> <li>• Certifications - CE, UKCA, TUV, RCM</li> </ul>
<b>Warranty</b>	2 years (extended warranty available upon request)



# Options & accessories

Product Code	Item Description
EVDC3020	20kW Power upgrade modules
EVAD5600	Add contactless payment terminal
EVAD6160	UltraCharge 160 Cable Management System (CMS)
EVAD7160	Upgrade to 7m (6.5m external) 300A rated cable (per cable)
RFID0010	RFID card
RFID0020	RFID fob
EVCB0020	Root mount protection barrier - 48mm
EVCB0040	Surface mount protection barrier - 48mm
EVPS0010	EV parking sign - A4 landscape (Other sizes are available)
ACSR0520	Perific Fuse Protection Device with 3x 900A up to 36mm <sup>2</sup> Current Sensors
ACSR0530	Perific Fuse Protection Device with 3x 900A up to 100mm <sup>2</sup> Current Sensors
COMM4000	Self-commissioning pack (per unit)
COMM5000	Factory configuration & pre-commissioning service (per unit)
Contact Roolec	CHAdEMO outlet models available



**Branding & colour options available**

Roolec offer a bespoke chargepoint branding service; from logos & brand colours, to vinyl wraps. This can be arranged at time of order. Contact ROLECEV 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
-  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
-  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
-  Static, Dynamic or True Dynamic load balancing options
-  EV Roaming feature, allowing chargepoints to be available on other apps

Other preferred back-office partners:

+ many more




**Charge point settings**  
Set charge point to public

Private  Public

**Reserve charge point**  
Book charge points at a time that suits you the best!

**Reserve**

**Easy payment for your employees**

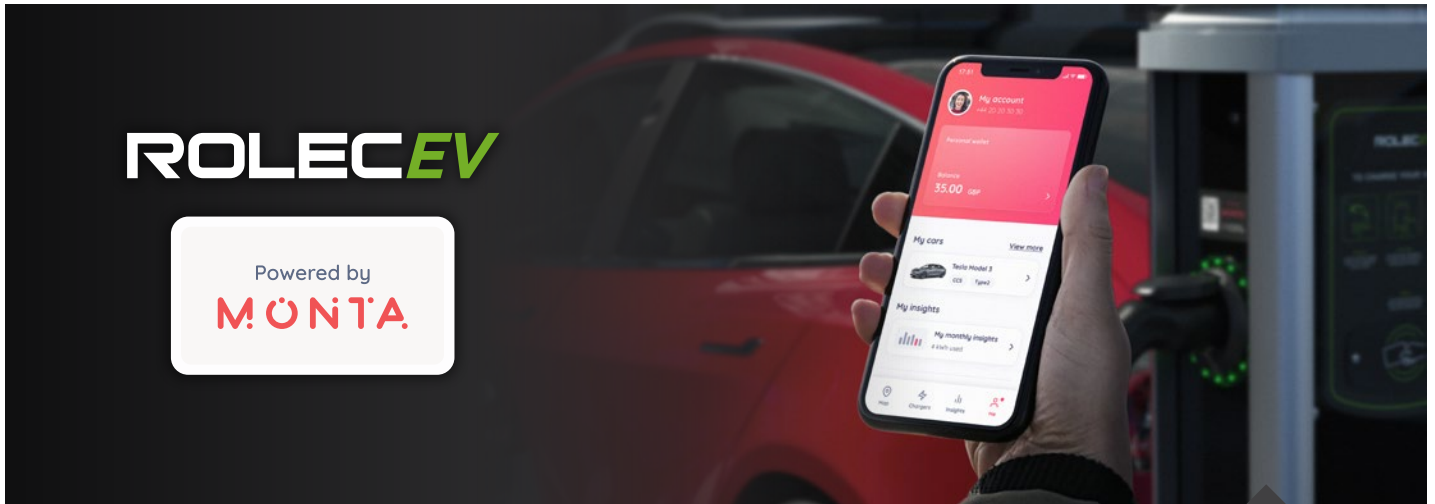
**Charge revenue** Feb 23 +3.48%





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

# Chargepoint operation



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**MONTA**

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

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

The MontA Charge app is 100% free with no subscription cost when charging at home

Other preferred mobile app partners:

- Fuuse
- wattif
- ChargePlace Scotland electric vehicle charging
- ev.energy



DOWNLOAD THE APP



## 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.



▶ For more details about the MontA solution for EV drivers and the MontA app, please visit [www.monta.com/uk/home-charging](http://www.monta.com/uk/home-charging)



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>

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EVUCD-V01-R5 UltraCharge 160 Data Sheet



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