



ROLECEV | *Sinexcel*

# ULTRACHARGE 160

Intelligent ultra-rapid EV charging station



Stocked in  
the UK by  
ROLECEV

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Intelligent ultra-rapid EV charging station

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

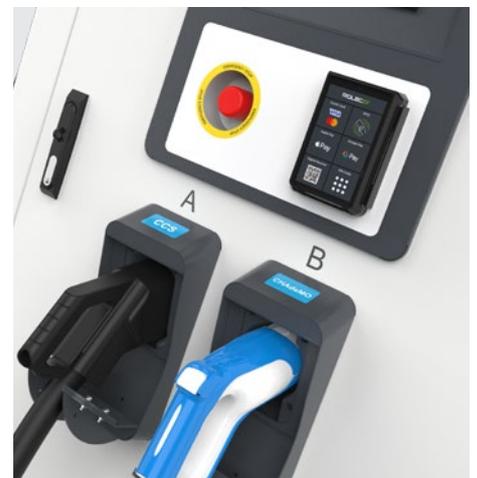
Powered by

**MONTA**

Other preferred back-office and mobile app partners:

**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.

# 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*

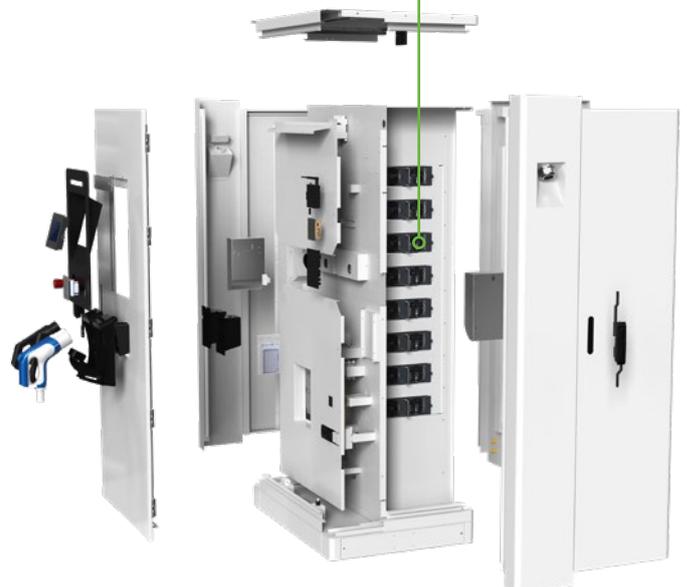
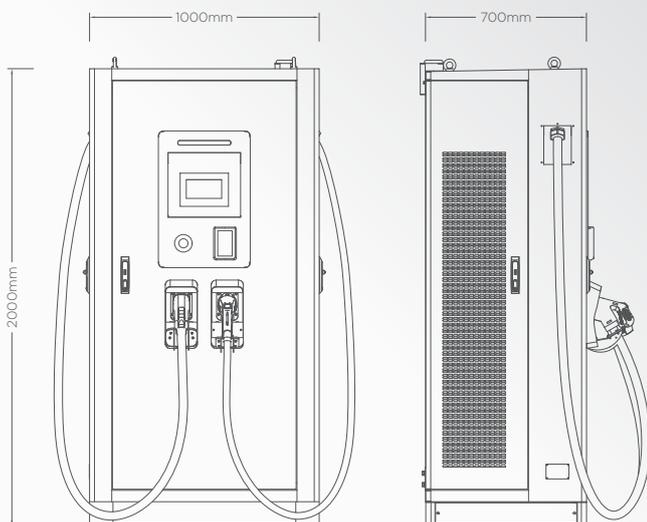
\*When 2 vehicles are charging simultaneously

### Easily upgradeable

20kW power modules for future scalability.



### UltraCharge 160:



# Specifications

## Technical Data:

<b>User Interface</b>	<ul style="list-style-type: none"> <li>• 7 inch HD high-contrast touchscreen display</li> <li>• Contactless card payment terminal</li> <li>• RFID reader (ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare 1)</li> <li>• NFC</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 load management (software configurable)</li> </ul>
<b>Input</b>	<ul style="list-style-type: none"> <li>• AC Input Voltage - 400V <math>\pm</math> 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, TN-CS</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>• Connector Options - CCS2 and CHAdeMO (see page 5 for connector configurations)</li> <li>• 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)</li> <li>• Maximum Output Current - CCS: 200A, CHAdeMO: 125A</li> <li>• Rated Power - DC: Up to 160kW (model dependent)</li> <li>• Peak Efficiency - 96%</li> <li>• Cable Length - 5 m (4.5 m exposed from the charger)</li> </ul>
<b>Communications</b>	<ul style="list-style-type: none"> <li>• 4G</li> <li>• RJ45 Ethernet connection</li> <li>• OCPP 1.6J</li> </ul>
<b>Dimensions</b>	1000mm x 2000mm x 700mm (W x H x D)
<b>Weight</b>	< 513kg (model dependant)
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Ingress Protection - IP55</li> <li>• Enclosure Protection - IK10</li> <li>• Operational Altitude - &lt;2000 m</li> <li>• Operating Temperature - -25 °C to +45 °C (full power)</li> <li>• Temperature Derating - Up to 45 °C: 100% output power, 45-65 °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 - 304 stainless steel</li> <li>• Finish - all-weather powder-coated finish</li> </ul>
<b>Unit Colour</b>	<input type="radio"/> White <input checked="" type="radio"/>  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</li> <li>• EMC Compliance - Class A (industrial)</li> <li>• Certifications - CE, UKCA, TUV, TR25, RCM</li> </ul>
<b>Warranty</b>	2 years (extended warranty available upon request)



# 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.

Other preferred back-office partners:




+ many more

-  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

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

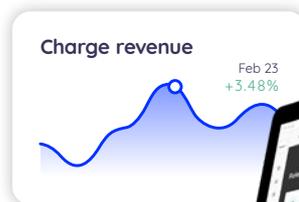
Private  Public

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

**Reserve**

**Easy payment for your employees**



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

# Chargepoint operation



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
-  Share and give charging access to friends, family and guests
-  Set your home charger for public use with custom pricing
-  Access to over 300,000 public chargepoints across Europe
-  Easily initiate charging and complete payments via credit card, Apple Pay, Google Pay or Monta Wallet
-  Online chat or support line for help when you need it most

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

Other preferred mobile app partners:

-  Fuuse
-  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-R2 UltraCharge 160 Data Sheet



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