



ROLEC

ULTRACHARGE 180

Intelligent ultra-rapid EV charging station



Stocked in
the UK by
ROLEC

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Intelligent ultra-rapid EV charging station

An intelligent modular and scalable DC ultra-rapid charging station, the ULTRACHARGE 180 is a futureproof and cost-effective solution for public, fleet, marina and highway infrastructure deployment.

This high powered, advanced and robust charger is available in three standard power configurations; 180kW, 150kW, 120kW versions which can be upgraded in the future with the simple addition of extra 30kW power modules.

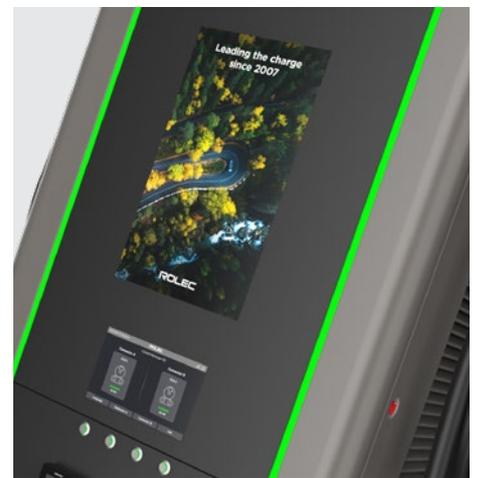
Offering convenient charging times for every EV with the ability to charge two vehicles simultaneously. Charging can be activated via either mobile app, RFID. A contactless payment terminal option is also available.

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



Product features

- Plug & go, mobile app, or RFID controlled charging
- Offers 2x DC charging outputs
- Up to 180kW charging speeds
- Upgradeable power modules
- OCPP 1.6 compliant, OCPP 2.0.1 (future) - integrates with any CPMS
- Over-the-air firmware, software and advertising updates
- Built-in 30mA Type A RCD protection
- Intelligent dynamic power sharing
- Supports static and dynamic load management
- 10.1" HD user interface screen & 21.5" advertising screen
- 4G / Wi-Fi / Ethernet connectivity
- 95% Peak efficiency
- Ultrawide power output voltage range 150V - 1000V
- Under/overvoltage, DC overcurrent, over-temp & surge protection
- 5m 350A Peak and 250A Nominal charging cables, capable of delivering 140kW charge rate to a standard 400V vehicle
- Cable management system as standard
- Optional 7m cables also available
- Optional RFID / NFC / contactless card payment terminal
- Conforms with PAS 1899 accessible charging standard
- Strong and durable IP54 / IK10 rated



OCPP 1.6 compliant (OCPP 2.0.1 future)

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.



Reliable & scalable EV charging solution

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



Always connected

Complete with secure 4G, Wi-Fi and Ethernet connectivity, ensuring chargers are always online 24/7.



Integrated advertising screen

Maximise visibility and engagement by utilising the 21.5" HD screen to showcase advertising or branding.



DC Rapid charging connectors

Up to 180kW CCS2 DC charging output, adding up to 135 miles in just 15 minutes.

The details

UP TO 180KW

Using 30kW power modules, this futureproof ultra-rapid charging unit is upgradable from 120kW to 180kW charging speeds.

Dual 5m 350A Peak and 250A Nominal CCS2 charging cables.

MAXIMISE YOUR ROI

150V-1000V dual power 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 180 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 150V-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, buses and boats.

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* | 190A | 132kVA | ● Grey | ROLEC180120 |
| 150kW DC | 2x CCS2 | 1x 150kW 1x 90kW/1x 60kW* | 238A | 165kVA | ● Grey | ROLEC180150 |
| 180kW DC | 2x CCS2 | 1x 180kW 2x 90kW* | 285A | 198kVA | ● Grey | ROLEC180180 |

*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

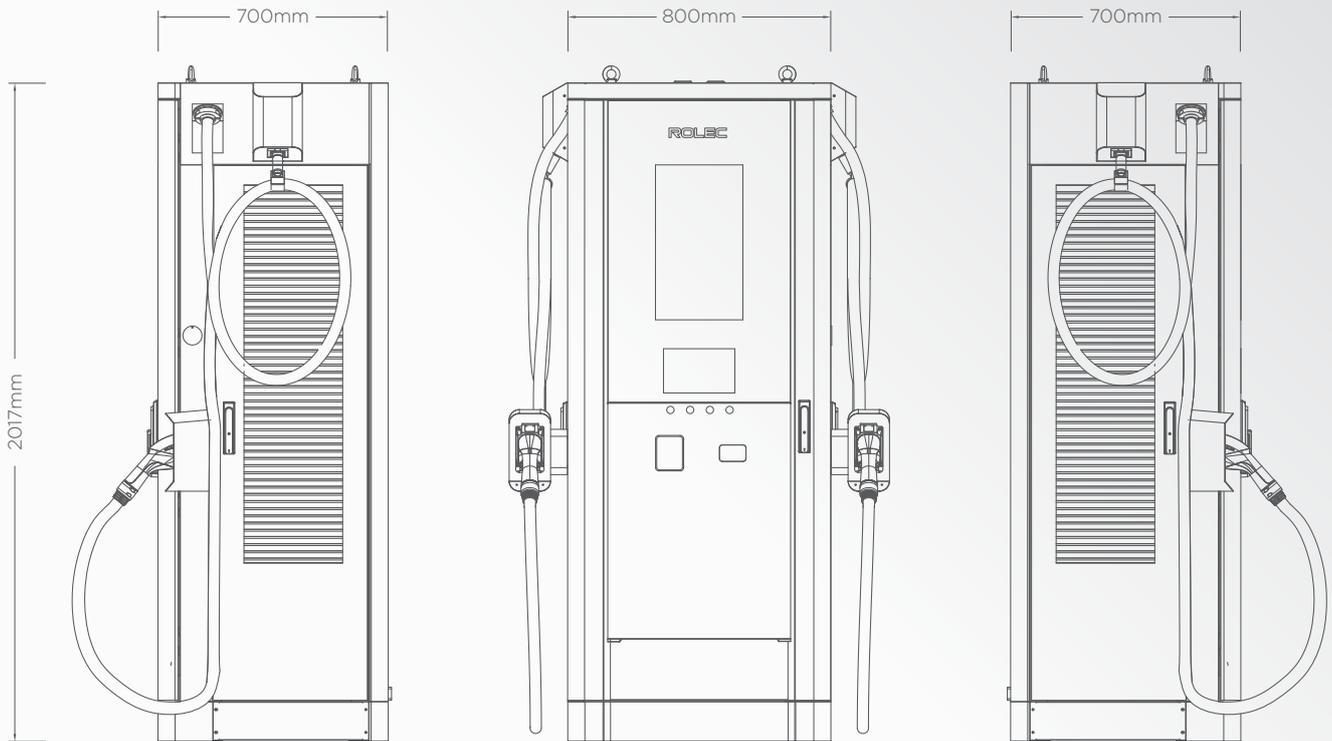
30kW power modules for future scalability.



Specifications

Unit Dimensions

UltraCharge 180:



Specifications

Technical Data

| | |
|---|--|
| User Interface | <ul style="list-style-type: none"> • 10.1" LCD display • RFID reader (ISO/IEC 14443A: MIFARE Classic EV1) • Optional NFC contactless card payment terminal • RGB LED status indicator • Supported Languages - English, French, German, Italian, Spanish (other languages available on request) |
| Charge Protocol | Mode 4 (IEC 61851-23) |
| Protection | <ul style="list-style-type: none"> • 30mA Type A RCD • Undervoltage & overvoltage protection • DC overcurrent protection • Over temperature protection • Surge protection device • Emergency stop button • Flood and smoke detection • Advanced dynamic power balancing • Supports static and dynamic load management (software configurable) (may require additional hardware) |
| Input | <ul style="list-style-type: none"> • AC Input Voltage - 400V AC (+/-10%) • Input Frequency - 50-60 Hz • Input Type - 3P + N + PE • Power Factor - ≥ 0.98 • THDi - <5% at normal power • Grounding type - TN, TT • Overvoltage Category - OVC III, DIN EN 60664-1 |
| Output | <ul style="list-style-type: none"> • Connector Options - CCS2 (other configurations available on request) • DC Output Voltage Range - 150-1000Vdc • Maximum Output Current - 350A • Rated Power - DC: Up to 180kW (model dependent) • Connector Rate Current - 250A • Peak Efficiency - $\geq 95\%$ • Cable Length - 5m (extended 7m cables also available) |
| Communications | <ul style="list-style-type: none"> • 4G GSM (built-in nano SIM(s), subscription required) • Wi-Fi • RJ45 Ethernet connection • OCPP 1.6J • OCPP 2.0.1 (future) |
| Dimensions | 800mm x 2017mm x 700mm (W x H x D) |
| Weight | < 490kg (model dependent) |
| Environmental | <ul style="list-style-type: none"> • Ingress Protection - IP54 • Enclosure Protection - IK10 • Screen Protection - IK08 • Operating Temperature - -30°C to +50°C (full power) • Humidity - 5%-95% • Cooling Method - Air cooled • Maximum Noise Level - <65 dB on Full Load (1m / 25 °C) |
| Materials | <ul style="list-style-type: none"> • Body - Stainless steel • Finish - All-weather powder-coated finish |
| Unit Colour |  Grey  Other colours and branding options are available upon request |
| Certifications & Compliances | <ul style="list-style-type: none"> • EV Charging Compliance - EN 61851, IEC 62196, DIN 70121, IEC 61000 • ENA Database • Accessibility - PAS 1899 accessible charging standard • Payter Payment Device (where fitted) - CE, FCC, RoHS, WEEE, REACH, EMVCo, PCI-PTS 6.x, TQM, MasterCard, VISA, American Express, Discover, Diners[®] • Certifications - CE, UKCA, TUV |
| Use Life | 10 years |
| Warranty | 2 years (extended warranty available upon request) |



Options & accessories

| Product Code | Item Description |
|----------------|--|
| UCPM18030 | 30kW Power upgrade modules |
| EVAD5600 | Add contactless payment terminal |
| EVAD1807 | Upgrade to 7m 350A peak / 250A nominal cable (per cable) |
| RFID0010 | RFID card |
| RFID0020 | RFID fob |
| EVCB0020 | Roof mount protection barrier - 48mm |
| EVCB0040 | Surface mount protection barrier - 48mm |
| EVPS0010 | EV parking sign - A4 landscape (Other sizes are available) |
| 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 |
| COMM5000 | Factory configuration & pre-commissioning service (per unit) |
| Contact Roolec | CHAdEMO outlet models available |

FEATURING
Customisable
advertising
screen & LEDs



UCPM18030



EVCB0040



RFID0020



EVPS0010



ACSR0535



ACSR0525



ACSR0545



EVAD5600



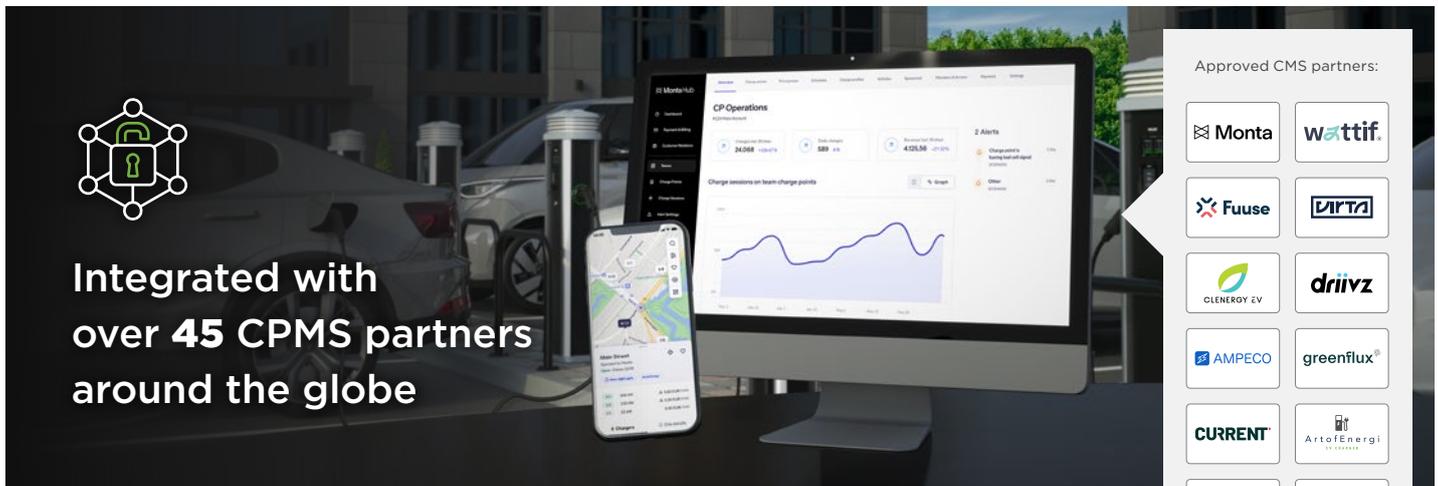
EVAD1807

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 ROLEC for details.

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Chargepoint management & operation



Integrated with over 45 CPMS partners around the globe



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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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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EVUC180D-V01-R2 UltraCharge 180 Data Sheet



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