



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

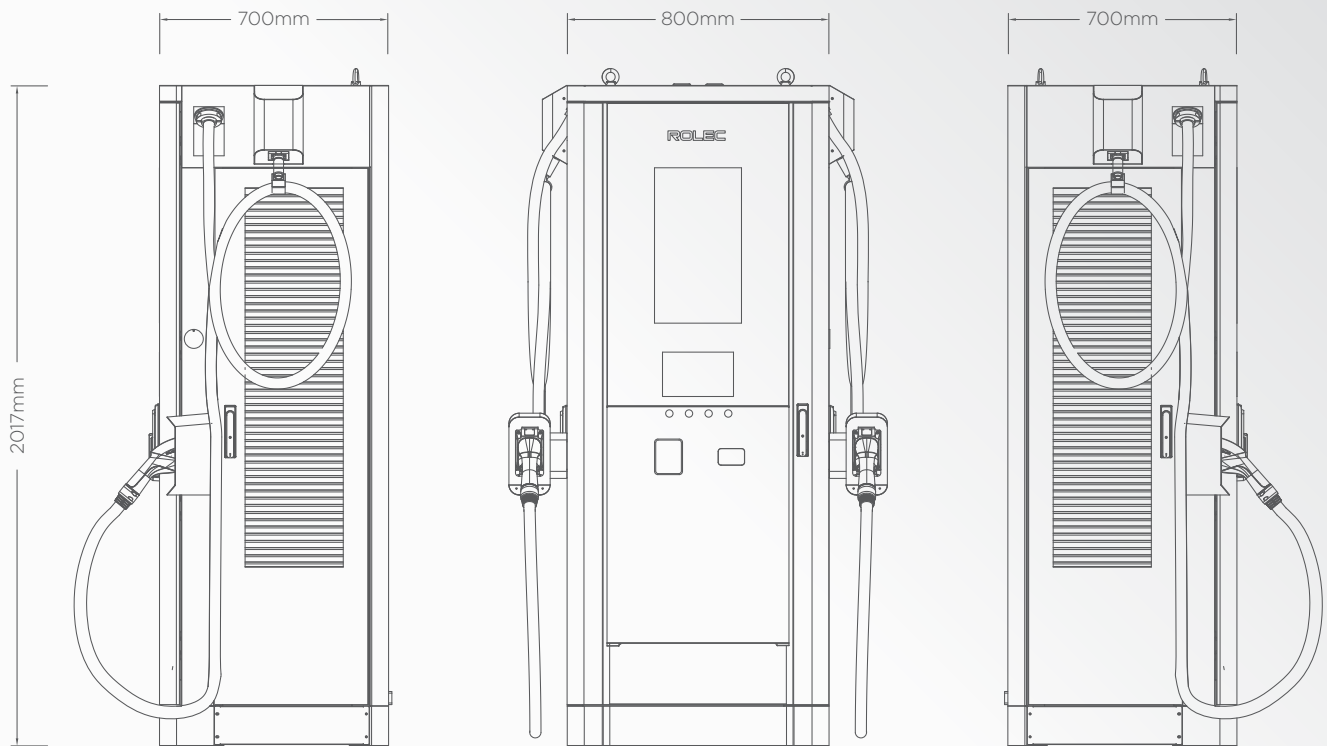
30kW power modules for future scalability.



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 OCPP2.0.1 (future)
Dimensions	800mm x 2017mm x 700mm (W x H x D)
Weight	< 580kg (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
EVAD8000	Add contactless payment terminal (inc. router)
EVAD1807	Upgrade to 7m 350A Peak/250A Nominal 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)
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
COMM5000	Factory configuration & pre-commissioning service (per unit)
Contact Roolec	CHAdEMO outlet models available

FEATURING

Customisable
advertising
screen & LEDs

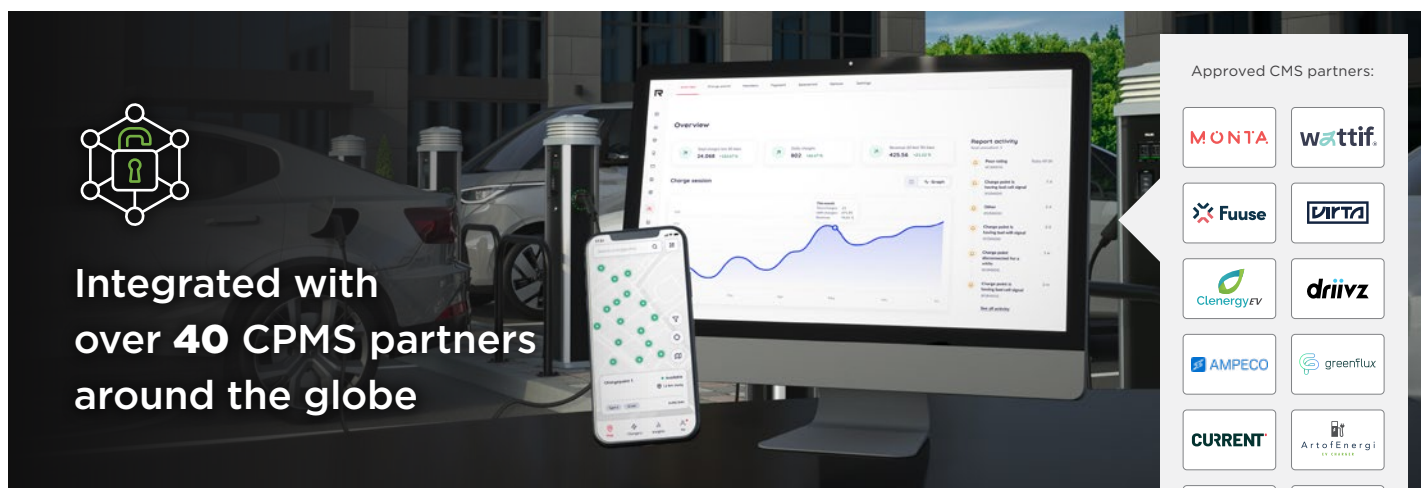


Branding & colour options available

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.



Chargepoint management & operation



Integrated with over 40 CPMS partners around the globe








Approved CMS partners:

- MONTA
- wattif
- Fuuse
- VIRTA
- ClenergyEV
- drivz
- AMPECO
- greenflux
- CURRENT
- ArtofEnergy
- connekt
- Spirii
- ROAM
- NOR+HE
- 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.

-  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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EVUC180D-V01-R1 UltraCharge 180 Data Sheet



ROLEC

t: 01205 724754
e: enquiries@rolecserv.co.uk
www.rolecserv.com

