

DC ULTRAFAST⁺

EV CHARGING STATION

Up to 4x AC & DC charging outlets
50kW • 100kW • 150kW



In partnership with

ROLECEV

STOCKED IN THE UK BY ROLEC



Unit shown: DC ULTRAFAST⁺
4in1 CHARGING STATION (UFC)
Available in 50kW, 100kW & 150kW versions

The DC ULTRAFAST⁺ (UFC) charging station is one of the most advanced, professionally engineered and future-proof ultrafast DC charging stations in the world.

This ultrafast charger is upgradable from the entry level 50kW unit in modules of 25kW all the way up to 150kW without ever having to change or modify the station itself.

Each station can offer up to 4x AC and DC charging outlet combinations, and charge up to 4x vehicles simultaneously.

The UFC has a number of charge activation settings, comprising Free-to-Charge as well as Pay-to-Charge solutions, including smartphone and/or RFID Contactless Smartcard (Back Office Managed).

PRODUCT FEATURES

- Offers both AC & DC charging
- Can offer up to 4x DC/AC charging outputs
- Can charge up to 4x vehicles simultaneously
- Can be supplied in 50kW, 100kW and 150kW formats
- Supplied in any kW format & upgraded to higher levels in the future
- Mix & match the DC & AC outputs to suit requirements
- DC charges in CHAdeMO and/or CCS Combo
- AC charges in 3.6kW, 7.2kW, 11kW, 22kW and 43kW
- OCPP 1.6 compliant (Can integrate with any back office)
- EMC Certified & Harmonics Compliant
- 7" colour customer interface display screen
- RFID card/fob customer authentication reader

Chargepoint Management

Can be programmed to operate via the Rolec EV CHARGE.ONLINE back office management system.



See the EV CHARGE.ONLINE Overview for details



OCPP 1.6
Compliant



CHAdeMO Rapid
DC Connector



CCS Rapid
DC Connector



43kW Type 2
AC Connector



IP Rated &
UV Stabilised



IK10 Impact
Rating

SPECIFICATIONS

TECHNICAL DATA

Input	
AC connection	3 phases + N + PE
AC voltage	400 V _{RMS} (L-L) ± 10 %
Frequency	50/60 Hz
Nominal current	336 A _{RMS} at maximum power (150 kW DC + 65 kW AC)
Power factor	0.99
Mains terminal	Terminal blocks
Transient OVP	Class II/C protection

DC charger - general	
DC output voltage range	200 to 500 V _{DC} 200 to 1000 V _{DC} optional
Maximum current of power unit	500 A _{DC} at 300 V _{DC} 375 A _{DC} at 400 V _{DC}
Maximum power of power unit	150 kW _{DC}
Cable / access length, Options	3.5 m / 2.5 m 5 m / 4 m
Protections	Overcurrent circuit breaker Short circuit protection Overvoltage protection Undervoltage protection Isolation monitoring Ground monitoring

DC charging points: CCS	
Rating cable and connector ¹⁾ , Options	200 A _{DC} / 1000 V _{DC} 400 A _{DC} / 1000 V _{DC}
Compliance	IEC 61851-23/-24 IEC 62196-3 DIN 70121

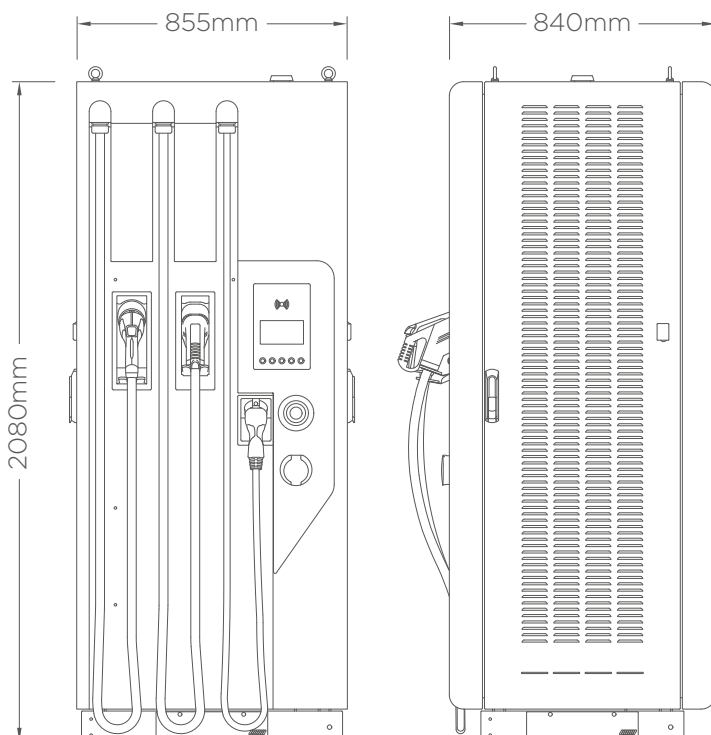
DC charging points: CHAdeMO	
Rating cable and connector	125 A _{DC} /500 V _{DC}
Compliance	IEC 61851-23/-24 JEVS G 105 Rev. 1.2 compatible

1) The charger is upgradable with a temperature-controlled 400A rated high power CCS cable/connector system to support 150 kW at 375 V

AC charging points	
Compliance	IEC 61851-22
AC plug at 43 kW charging point	IEC 62196-2 Mode 3, Type 2
AC socket at 22 kW charging point	IEC 62196-2 Mode 3, Type 2
Nominal AC voltage	400 V _{RMS}
Maximum charging current	
at 43 kW charging point	3 x 63 A _{RMS} at 43 kW
at 22 kW charging point	3 x 32 A _{RMS} at 22 kW
Cable / access length	3.5 m / 2.5 m 5 m / 4 m
Protections	RCD Type B Overcurrent circuit breaker Ground monitoring

User interface	
Display	7" graphical color display
Keypad	5 buttons, backlit
Local authentication	RFID reader
Emergency stop button	Yes (option)

General	
Height (overall)	2079 mm
Width (body)	852 mm
Depth (overall)	998 mm
Weight (System)	450 kg at 150 kW
Protection degree	IP 55
Enclosure protection	IK 10
Efficiency rectifier	95 % ± 0,5 %
Operating temperature range	-25 °C to +45 °C
Maximum relative humidity	95 %, non-condensing
Compliance and safety	IEC 61851-1 IEC 61851-22 IEC 61851-23
EMC	61851-21-2



SPECIFICATIONS

CONFIGURATION OPTIONS

Charging points on 1 side with 2 DC connectors

All charging points are on the front. Depending on the configuration, a maximum of 2, 3 or 4 vehicles can be charged simultaneously. All DC configurations can be combined with all AC configurations.

DC Connectors:



DC1: CCS; DC2: CCS



DC1: CCS; DC2: CHAdeMO

AC Connectors:



1x AC plug Type 2; 1x AC socket Type 2



1x AC plug Type 2



1x AC socket Type 2



No AC charging point

SPECIFICATIONS

CONNECTOR TYPES & CHARGING CABLES

DC Connectors:



CHAdemo plug, 125 A

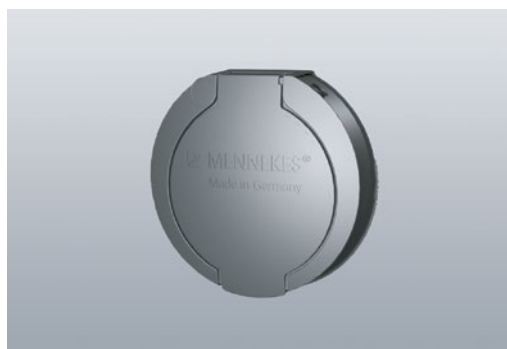


CCS plug, 200 A or 400 A

AC Connectors:



AC plug Type 2, 32 A



AC socket Type 2, 16 A

Length of charging cables

Standard length: 3.5m = 2.5 m operating radius

Special length: 5m = 4 m operating radius

SPECIFICATIONS

PRODUCT OVERVIEW

Product Code	Description
EVDC0130	50kW DC + 65kW AC 4in1 (CHAdeMO + CCS + AC 43kW + 22kW)
EVDC0131	50kW DC + 43kW AC 3in1 (CHAdeMO + CCS + AC 43kW tethered type2 lead)
EVDC0132	50kW DC + 22kW AC 3in1 (CHAdeMO + CCS + 22kW socket)
EVDC0133	50kW DC 2in1 (CHAdeMO + CCS)
EVDC0134	50kW DC 2in1 (CCS + CCS)
EVDC0150	100kW DC + 65kW AC 4in1 (CHAdeMO + CCS + AC 43kW + 22kW)
EVDC0151	100kW DC + 43kW AC 3in1 (CHAdeMO + CCS + AC 43kW tethered type2 lead)
EVDC0152	100kW DC + 22kW AC 2in1 (CHAdeMO + CCS + 22kW socket)
EVDC0153	100kW DC 2in1 (CHAdeMO + CCS)
EVDC0155	100kW DC 2in1 (CCS + CCS)
EVDC0170	150kW DC + 65kW AC 4in1 (CHAdeMO+CCS + AC 43kW + 22kW)
EVDC0171	150kW DC + 43kW AC 3in1 (CHAdeMO + CCS + AC 43kW tethered type2 lead)
EVDC0172	150kW DC + 22kW AC 3in1 (CHAdeMO + CCS + 22kW socket)
EVDC0173	150kW DC 2in1 (CHAdeMO + CCS)
EVDC0174	150kW DC 2in1 (CCS + CCS)
EVDC0180	UFC ground mount structure

OPTIONS & ACCESSORIES

- RFID Card / Fobs
- Load Manager system (electrical distribution management)
- Corporate branding (colours, logo badge, etc.)
- Protection barriers
- Charge point signage



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