

Charging Station with Direct Payment

FastCharger EC500

The **DC FastCharger** is EnerCharge's flagship with up to 480 kW charging power. Payment and billing are carried out **directly at the charging station**.

Visionary Charging

- > The DC FastCharger is a powerful DC fast charging system that is available with up to two charging stations. Two charge points are provided per charging station, which are connected to the compact PowerUnit power electronics.
- > The combination EC500 and DC PowerUnit allows for flexibility during setup. For example: two PowerUnits Single and an EC500 Dual combine for a maximum charging output of 480 kW. On request, the DC FastCharger offers 2x CCS or 1x CCS/1x CHAdeMO plugs.
- > The intuitive and customer-friendly operation and revolutionary direct payment happen easily and quickly, directly through the high-resolution 15,6 inch display with Debit-, Maestro, Girocard, NFC and more. Contactless payment through Bluetooth is available as well. As an added value, videos can be played for advertisement purposes.

The Advantages at a Glance:

- > Modular scalability for charging of next-generation electric cars.
- > Dynamic energy management to minimise charging time.
- > High-resolution **15.6 inch front display** for user guidance and direct payment.
- > Two direct current (DC) charging connectors - in total up to 480 kW:
 - CCS up to 480 kW @1000 VDC**
 - CHAdeMO up to 62.5 kW
- > Cable alternatively:
 - 250 A / 450 A uncooled or 500 A cooled**
 - 3 m or 4.8 m length**
- > Advertising can be displayed.
- > Stand-alone capability - no backend costs.
- > Direct payment with NFC-capable devices via e.g. Google-Pay and Apple-Pay. Additional payment methods are added continuously.
- > Standing charging station with **integrated payment module** for debit, credit and customer/loyalty cards.
- > Debit and Girocards can be used as customer cards.
- > Makes up to 8 additional AC charge points billable and controllable.



FastCharger EC500

Innovative Direct Payment

- > Payment as easy as your daily shopping trip: EnerCharge means maximum payment comfort for your customers. Payment is easy, versatile and secure – no memberships or binding obligations.
- > The payment is carried out directly at the charging station EC500
- > Your customers pay with:
Debit- and banking cards:



Credit cards:



Fleet- and customer cards:



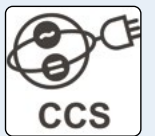
DC PowerUnit

- > The PowerUnit provides DC power to the EC500. The distance between the charging station and the PowerUnit can be up to 50 metres. The PowerUnit is available in three power levels: 20/160/200/240 kW.



2x CCS with parallel charging

- > The DC FastCharger is also available in a version with parallel charging which is eligible for certain grants. In this version the DC FastCharger comes with 2 CCS charge plugs which can be used simultaneously to charge two electric vehicles at the same time.



Technical Data DC	
Nominal Voltage	1000 V _{DC}
Nominal Voltage Peak (max. charging current)	500 A
Maximum Rated Power	500 kW
Charging Connector	CCS Combo-2
Power Factor	0,96

Technical Data Housing	
Dimensions	H / W / D: 1865 / 450 / 500 mm (without plug holder or cable management)
Weight (max.)	175 kilograms
Place / Type of Installation	Interior / exterior, floor-mounting on concrete base (foundation)
Humidity (relative)	5-95% non-condensing
Temperature Ranges	Environment / storage / interior temp.: - 25 to + 45 °C
Housing / Protection Type	Stainless steel 1.4301 (AISI 304), robust design (IP54 / IK10), white powder-coated
Custom Design	Yes, with minimum order quantity

Example Layout

- Warm air ventilation system
- Intake-Vents
- GPRS Antenna
- Intake-Fans

➤ max. 2 x EC 500 1 x DC PowerUnit (120/160/200/240 kW)

Operation	
Display	Simple, intuitive user interface, display of charging prices, display of ads and provision of receipts
Display Size (inches)	15,6"
Operation	Buttons
Barrier-free	Yes
Status Display (for user)	Status-LEDs of charger, via 15,6" display, via online access

Charging Cable	
Outlets (DC)	2
Charge Points	2
No. of Charging Cables	2
Charging Cables with Fluid Cooling	Optional
Simultaneous Charging of Multiple Vehicles	Yes
Cable Length (from outside of housing, incl. charging connector)	3 m (without cable management) or 4,8 m (with cable management)

Billing System / Authentication	
NFC Reader	Optional
Energy Meter (MID)	Optional
Authentication of Charging Process	RFID, OCPP, Fahrzeug-ID (MAC), free-charge

- **Modular product and service solutions:** 100% flexible and future-proof.
- **Best end-customer service:** No obligations and maximum payment comfort.
- **Economical:** Fast profitability - no backend costs.

Direct Payment	Optional
Payment Options (app, card, etc.)	1. RFID-Karte 2. Kredit- / Debitkarten (Mastercard, VISA), Maestro / Bankomat (abhängig von Acquiring Bank) 3. Mobile Payment (Google Pay / Apple Pay)
Payment Terminal Hardware (manufacturer, configuration)	1. Worldline VALINA 2. CCV IM30 (ab Q3 / 2024) 3. Feig cVEND PIN

Standards and Certifications	
Verifiably complies with the following standards (test reports available)	1) Low Voltage Directive (LVD) (2014 / 35 / EU) 2) EMC Directive (2014 / 30 / EU)
Complies with basic technical standards:	Complete
IEC 61851-1	Yes
IEC 61851-23	Yes
IEC 61851-21-2:2018	Yes
DIN SPEC 70121:2014	Yes
DIN EN ISO 15118-1/2	Yes
German Standard Weights and Measures Law („Eichrecht“)	-
IEC 62196-3	Yes, via charging cable manufacturer

Extras	
Interface for Energy Management	Only via associated PowerUnit
Display of Ads	Yes
Operator Service Portal	Location-independent self-management via online access
Remote Updates	Yes

* S = Single: one vehicle at a time per charging station can be charged.

** D = Dual: simultaneous charging of two e-vehicles is possible (parallel charging). The power electronics automatically adapt the charging power.
Ex.: 1 vehicle = 180kW/1000VDC, 2 vehicles = 2x90kW/1000VDC.

*** All information is supplied without liability - the exact calculation of the electrical lines must be done on site.