

# DC Charging Station for e-Buses and e-Trucks

## DCPillar 450

The **DC Pillar450** by EnerCharge offers ultra-fast charging for e-buses and e-trucks of the current and next generation. Active load management also ensures prioritized charging.

### Clever Charging Allrounder

- Fueled by discussions about pollution in urban areas, electric mobility is also picking up speed for e-buses and e-trucks. Electrification requires intelligent charging solutions, and with the DC Pillar450, EnerCharge offers a sophisticated system as an all-round charging solution for entrepreneurs and fleets.

### Easy Installation and Practical Handling

- The DC Pillar450 is equipped with an up to 8 meter CCS-Combo-2 charging cable with a cable pull for convenient and safe handling. Mechanical installation is very simple and space requirements are extremely small with a footprint of less than 0.5 m<sup>2</sup>. Authentication of the e-buses and e-trucks happens according to ISO 15118 via vehicle ID for efficient fleet management. An NFC reader is also available as an option. Another practical feature is an automated alarm message if a plugged-in e-bus or e-truck fails to charge.

### Individual Charging Power

- Thanks to the integrated load balancing, the charging power for each e-vehicle can be individually controlled, and with intelligent load management, there is also no need to extend the maximum specified connected load.

### Freely Scalable

- The DC Pillar450 can be scaled as required and is supplied with direct current (DC) by the compact DC PowerUnit power electronics. This also enables the connection of up to four DC Pillar450.

### Compact AC/DC Power Unit

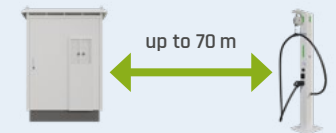
- The DC Power-Unit is a compact, space-saving AC/DC power unit optimized for low weight. Cost-effective installation is possible outdoors and in covered, open-sided spaces (e.g. car ports). Other advantages are ease of service, high efficiency and low operating costs.



DCPillar 450 (2,5 m variant)

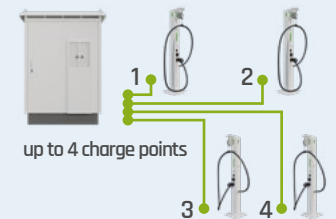
### Cost Effective and Flexible Installation

- The compact dimensions and low weight of the DC Pillar450 and the DC PowerUnit allow for a flexible installation. This in turn means low installation costs
- Further installation advantage: The distance between the DC PowerUnit and the DC Pillar450 can be up to 70 meters.



### Freely scalable

- The DC Pillar450 can be scaled as required. Up to 4 DC Pillars450 can be connected per DC PowerUnit 240.



### Charging Standard CCS Combo-2

- The DC Pillar450 is compatible with the CCS Combo-2 charging standard.



### Compatible with DC PowerUnit

- The external AC/DC power unit (DC PowerUnit) supplies the DC Pillar450 with direct current. The DC Power-Unit enables the connection of 1, 2, 3 or 4 DC BusPillars250.



Technical Data DC	
Nominal Voltage	1000 V <sub>DC</sub>
Nominal Voltage Peak (max. charging current)	500 A
Maximum Rated Power	500 kW
Charging Connector	CCS Combo-2
Power Factor	n/a

Technical Data Housing	
Dimensions	H / W / D: 4010 / 200 / 460 mm (incl. cable management)
	H / W / D: 2510 / 200 / 460 mm (incl. cable management)
	H / W / D: 2005 / 200 / 200 mm (without cable management)
Weight (max.)	203 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.: - 30 to + 45 °C
Housing / Protection Type	Stainless steel 1.4301 (AISI 304), robust design (IP55 / K10), white powder-coated
Custom Design	Yes, with minimum quantity

Operation	
Display	Optional
Display Size (inches)	5"
Operation	Buttons
Barrier-free	Optional
Status Display (for user)	Status-LEDs of charger, via 5" display, via online access

Charging Cable	
Outlets (DC)	1
Charge Points	1
No. of Charging Cables	1
Charging Cables with Fluid Cooling	No
Simultaneous Charging of Multiple Vehicles	No
Cable Length (from outside of housing, incl. charging connector)	5 m (without cable management) 5 m / 8 m (with cable management)

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

Payment Options (app, card, etc.)	1. RFID-card 2. Credit- / Debit cards (Mastercard, VISA), Maestro / Debit (depending on acquiring bank) 3. Mobile Payment (Google Pay / Apple Pay)
Payment Terminal Hardware (manufacturer, configuration)	Worldline VALINA

Standards and Certifications	
Verifiably complies with the following standards (test reports available)	Fulfilled upon receipt of the test report
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	No
Operator Service Portal	Location-independent self-management via online access
Remote Updates	Yes

## Exemplary Layout 1

- > 2x DC Pillar 450
- > 1x DC PowerUnit 240

**Max. charging power per charge point:**  
**240 kW @1000V<sub>DC</sub>**



## Exemplary Layout 2

- > 1x DC Pillar 450
- > 1x DC PowerUnit 120

**Max. charging power:**  
**120 kW @1000V<sub>DC</sub>**



## Exemplary Layout 3

- > 4x DC Pillar 450
- > 1x DC PowerUnit 240

**Max. charging power:**  
**240 kW @1000V<sub>DC</sub>**

