

DC Charging Station for e-Buses and e-Trucks

DC BusPillar250

The **DC BusPillar250** 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 BusPillar250, EnerCharge offers a sophisticated system as an all-round charging solution for entrepreneurs and fleets.

Easy Installation and Practical Handling

- › The DC BusPillar250 is equipped with a 7.5 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 m². 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 BusPillar250 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 BusPillar250.

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.



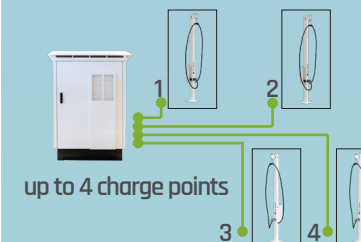
Cost-effective and flexible installation

- › The compact dimensions and low weight of the DC BusPillar250 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 BusPillar250 can be up to 70 meters.



Freely scalable

- › The DC BusPillar250 can be scaled as required. Up to 4 DC BusPillars250 can be connected per DC PowerUnit 240.



Charging Standard CCS Combo-2

- › The DC BusPillar250 is compatible with the CCS Combo-2 charging standard.



Compatible with DC PowerUnit

- › The external AC/DC power unit (DC PowerUnit) supplies the DC BusPillar250 with direct current. The DC Power-Unit enables the connection of 1, 2, 3 or 4 DC BusPillars250.



Exemplary Layout 1: DC BusPillar250

2x DC BusPillar250
1x DC PowerUnit 240

Max. Charging Power per CP:
250 kW @1000V_{DC}



Exemplary Layout 2: DC BusPillar250

1x DC BusPillar250
1x DC PowerUnit 120

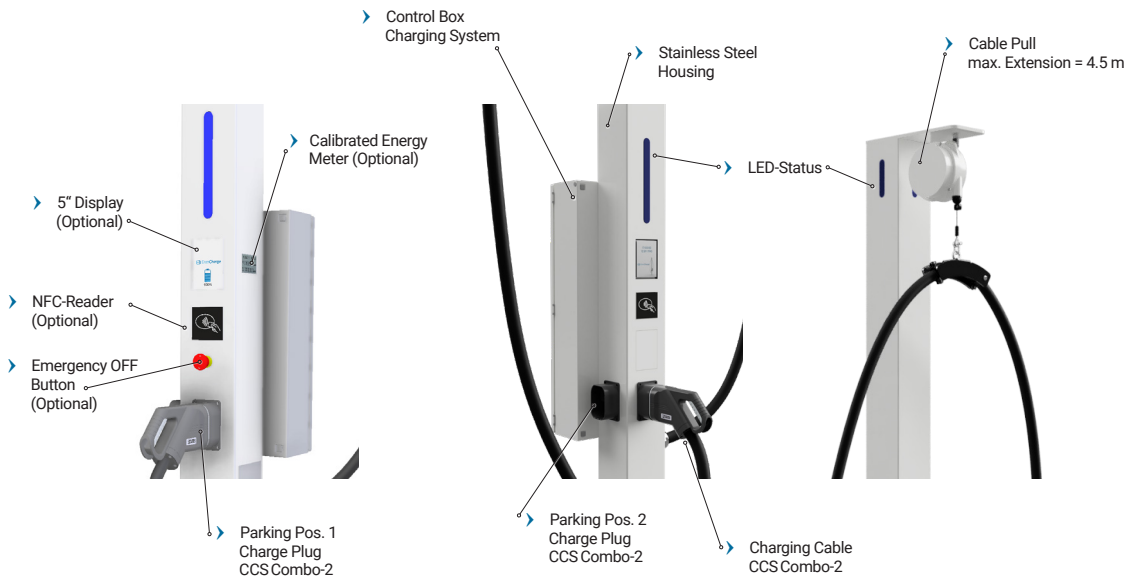
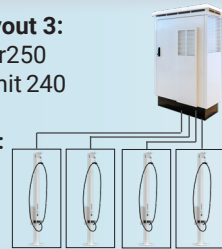
Max. Charging Power:
120 kW @1000V_{DC}



Exemplary Layout 3:

4x DC BusPillar250
1x DC PowerUnit 240

Max.
Charging Power:
250 kW
@1000V_{DC}



DC BusPillar 250	CCS Combo-2
Function	DC charge point for e-buses and e-trucks
Housing	Robust Design (IP44/IK10)
Charging Status	via touch display 1150 cd/m ² (Optional), via online access
Connection Type	1x CCS
Charging Voltage	DC
Max. Charging Current	max. 250 A
VDC max.	250 V _{DC} to 1000 V _{DC}
AC/DC Power Unit	DC PowerUnit
Charge Points	1
Usability	easy, accessible
NFC Reader	optional
Authentication of Charge	RFID, ISO 15118, DIN 61851 (vehicle ID)
Cable Cooling CCS Combo-2	No
User-Friendliness	★★★★★
Communication Standard:	OCPP V1.6 (Open Charge Point Protocol)
Cable Length	5 to 8 meters
Noise Emission	0 decibel
Energy Meter (MID)	optional
Temperature Ranges	environment/storage/interior temp.: - 30 to +45 degrees Celsius
Dimensions	H/W/D: 4015 / 150 / 150 mm
Weight	ca. 90 kilograms
Power Connection*	DC supply line*: max. 120 mm ² (1000 V - 70 meters)
Commissioning	online activation of the charger by EnerCharge (no on-site appointment necessary)
Operator Portal	location-independent self-management via online access

* Data given without guarantee - the exact calculation/dimensioning of the lines must be done on site.

DC Power-Unit V2	240 kW	120 kW
Function	Power Unit for DC BusPillar 250	
Housing	Robust Design (IP44/IK10)	
Voltage	DC	
Power Output	240 kW	120 kW
Max. Charging Current	500 A	352 A
VDC max./min.	250 V _{DC} to 1000 V _{DC}	250 V _{DC} to 1000 V _{DC}
Outlets (DC)	1 (Single), 2 (Dual), 3 (Triple) or 4 (Quadruple)	1 (Single), 2 (Dual)
Temperature Ranges	environment/storage/interior temp.: - 25 bis +45 degrees Celsius	
Noise Emission	40 decibel	
Dimensions (H/W/D)	1850/1255/545 mm	1710/1124/545 mm
Weight	ca. 300 kilograms	
DC Supply to Charger	max. 300 mm ² (1000 V - max. 50 m)	max. 185 mm ² (1000 V - max. 50 m)
AC Supply	max. 300 mm ² (500 V - max. 50 m)	max. 185 mm ² (500 V - max. 50 m)
Installation	max. 70 meters between DC PowerUnit and DC BusPillar250	