ferroamp

DC fast charger

EVDC – 12 / 25 kW

Bidirectional charger for DC grids

- CCS charger up to 25 kW
- Compatible with the EnergyHub DC nanogrid
- Integrated vehicle to grid functionality (V2G)
- State of the art efficiency (99 %)

The new smarter way of charging electric vehicles

The EVDC charger brings a new flexible way of integrating electric vehicles into energy systems. The unit can charge electric vehicles faster with DC directly from a DC grid. This avoids the bottle neck with the on board charger and allows charging up to 25 kW. The charger also support vehicle to grid and vehicle to house (V2G, V2H) functionality for back-up, off-grid and grid supporting applications. The EVDC comes with full connectivity for integrating into your existing EnergyHub installation as well as integration to charge system operators.

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EVDC – DC fast charger 12 / 25 kW

	EVDC 12	EVDC 25
Electric vehicle side		
Rated charging power @ 400 V	12 500 W	25 000 W
Vehicle battery voltage range, V_{BAT}	120 – 720 V	
Maximum battery current, I_{BAT}	+/- 32 A	+/- 63 A
Standard	CCS type 2	
Standard charging cable	2.5 meters	
DC grid side		
DC bus voltage, V_{DC}	760 V (nominal)	
DC bus voltage range, V_{DC}	740 - 780	
Maximum DC bus fusing	35 A	
DC bus connection	3-wire (L+, L-, PE)	
Max efficiency	99.0%	
System communication	Narrow band power line communication (PLC)	
Physical		
Dimensions H x W x D	500 x 250 x 200 mm	500 x 250 x 200 mm
Weight	12.0 kg	15.0 kg
Color	Black	
Installation		
Ambient temperature	-20°C – 40°C	
Degree of protection	IP 65	
DC bus connector	Screw terminal, max 16 mm^2	
Cooling	Natural convection	
Connectivity		
Ethernet	Yes	
OCPP	Yes	
Modbus/TCP	Yes	
Charging mode	IEC 61851, mode 4	
Compliance		
LVD	TBD	
EMC	EN 61000-6-2, EN 61000-6-3	
RoHS	Yes	
Protection functions	DC polarity reversal, overtemperature, emergency stop button	

CE