



Power container eC600

The eC600 container is the energy supply unit for the HPC charging station.

The multi-stage design with ACDC converter, DC link and galvanically insulating DCDC converters for charge control enables a mains-independent load management on DC level.

- 2 x 300 kW bidirectional input converters
- 600 kW charging capacity dynamically distributed to 4 x max. 400 kW per charging point
- Nominally 700 V DC link
- 12 x 60 kW DCDC converters, galvanically insulating
- 12 x switch matrixes for the dynamic allocation of charging capacity to max. four charging points
- DC Output voltage from 200 V up to 950 V
- Energy feed-in into the DC link enables direct connection of
 - solar fields
 - wind power plants
 - stationary energy storages

Power container eC600 data sheet

The power container is connected to a low-voltage network and supplies the charging poles with the required charging current. The low-voltage container fulfills the following functions:

- the conversion from alternating current supplied by the mains to direct current
- the conversion from DC bus voltage to charging voltage as required by the charging poles
- the distribution of charging capacity to the charging poles as needed

The components mounted into the low-voltage container are accessible via doors on the front and back side. On the front side, there are ventilation slots for the cooling system of the container.



Electrical data

Nom. voltage AC	400 Vac
Nom. current AC	866 A
Frequency	50/60 Hz
Power input	660 kVA
Nom. charging power	600 kW
Reactive power (adjustment range)	up to 500 kVAr
EMC	EN 61000-6-2 EN 61851-21-2
Electrical safety	EN 60664-1
Efficiency	94%
Electrical connection	
Input	- aux. voltage - 2 x power
Output	each charging point - plus/minus - Ethernet
Charging points	4, optionally up to 12

Environmental conditions

Ambient temperature during normal operation	-25°C to 45°C
Relative humidity	5% – 95%
Cabinet heating	prevents condensate
Operation altitude	up to 2000 m
Operating noise	< 60 dBA
Protection class	IP 54
Weight	< 7 t
Dimensions	
Width	2508 mm
Depth	2438 mm
Height	2995 mm

Communication

GSM / 4G
Ethernet
SCADA