

E-mobility

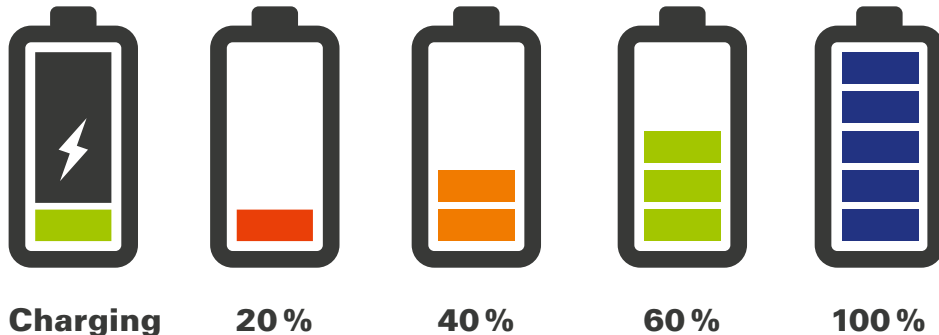
High-power charging with DC fast-charging system
Power output up to 850 amperes



New Development: Alligator-HPC cooled fast-charging system

With high-power charging, our charging systems step up to a whole new performance range. Voltages up to 1000 volts and currents up to 850 amperes permit maximum charging power. The cooled charging cable delivers the same power that could be supplied by the total socket power of 230 domestic sockets. With a power output of up to 850 amperes, the cooled DC fast-charging system is part of one of the most efficient charging systems on the market, thus earning its product name: Alligator.

Fast charging: under 8 minutes, thanks to 850 ampere power output



Customized deployment in electric vehicle charging stations

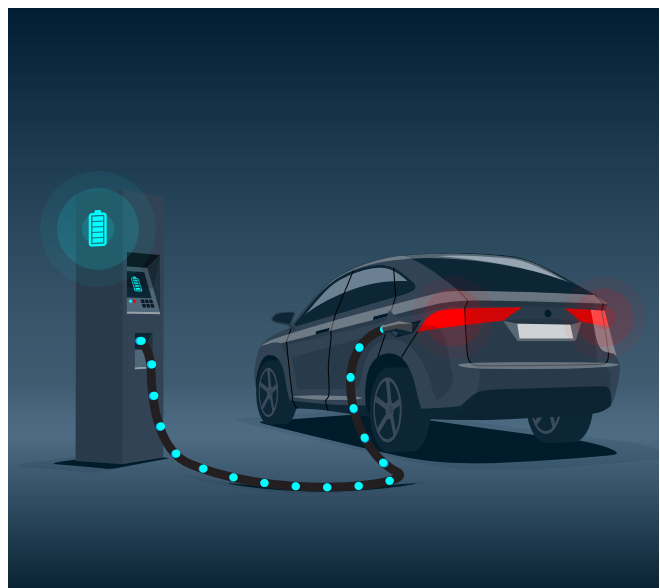
The Alligator-HPC combines a charging plug and a charging cable. For an electric vehicle charging station with multiple charging poles, we advise the station operators on the installation of the appropriate cooling circuit.

Centrally controlled cooling circuit

A central cooling unit is installed. The coolant flows to the decentralized charging poles. All the charging poles use the same cooling circuit.

Decentralized cooling for standalone charging poles

Cooling and control units are installed in the individual charging poles. The modular design permits flexible, supplier-independent extensions.



Technical data Alligator-HPC

- Mode 4: CCS HPC Typ 2 for Europe
- Max. rated voltage: 1000 VDC
- Max. rated current: 850 A
- Based on VDE-EN 50620 and TS 62196-3-1
- Cooling efficiency: 600–3000 W (depending on cooler and ambient temperature)
- Operating temperature: –35 °C to +55 °C

Benefits of Alligator-HPC



Fast charging: under 8 minutes

Charging currents up to 850 A at a nominal voltage of 1000 VDC.



Highly flexible and functional charging cable

Integrated cooling permits a small cable cross-section and a lightweight design with maximum flexibility.



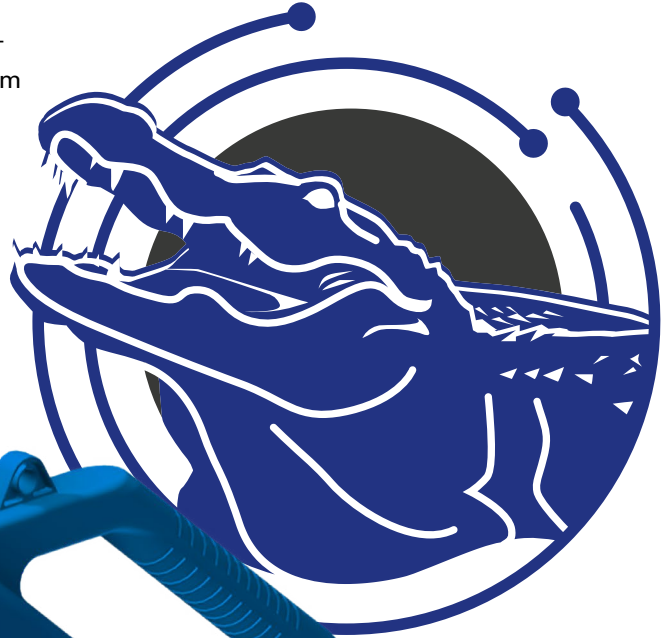
Sustainability

Eco-friendly water-based coolant.



Maintenance-friendly charging system

The frame of the plug face and the DC contacts are easy to replace.



Charging cable properties



Eco-friendly

- Biodegradable and eco-friendly coolant
- Non-toxic and non-hazardous



Rollover-resistant

- Wear-resistant
- Excellent oil and petrol resistance



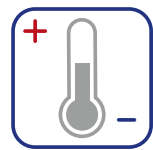
Rugged

- Flame-retardant according to IEC 60332-1
- Resistant to hydrolysis, ozone and weathering
- Resistant to UV radiation
- Halogen-free



Flexible

- Min. bending radius $10 \times D$
- Torsionable



Heat / cold

- Temperature range: -40°C to $+90^{\circ}\text{C}$ (In case of a short circuit $+160^{\circ}\text{C}$ for 5s)
- Resistant to temperature cycling

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