

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

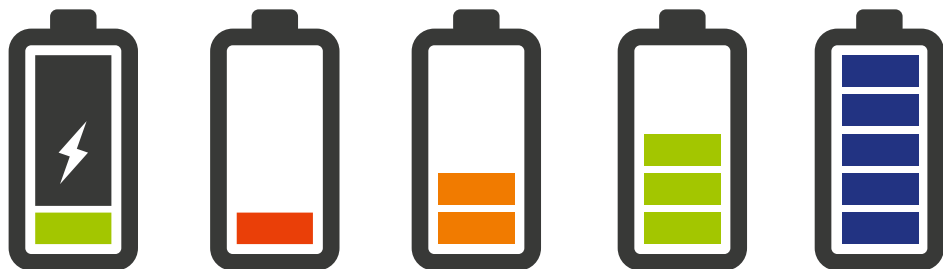
E-mobility



## New Development: PURWIL Connect 850+ 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.

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



Charging

20 %

40 %

60 %

100 %

### Customized deployment in electric vehicle charging stations

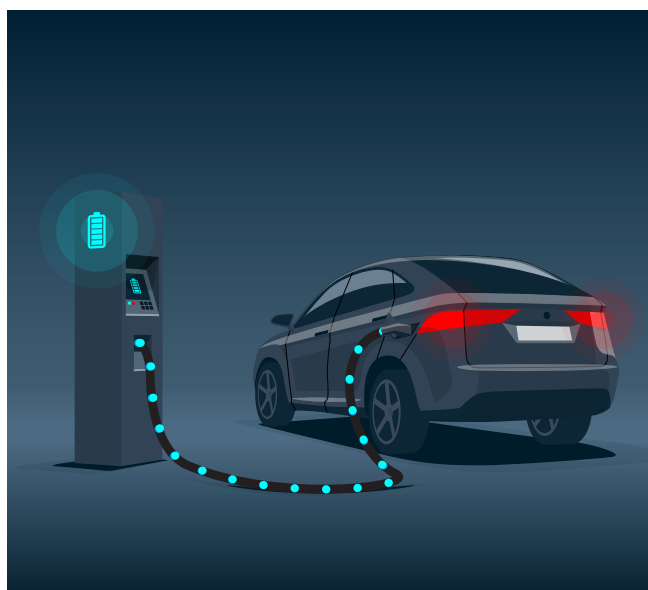
Das PURWIL Connect 850+ Cooled System combines a charging plug and a charging cable. For an electric vehicle charging station with multiple charging poles, we advise the station operators on the installation of the appropriate cooling circuit.

#### 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 PURWIL Connect 850+ Cooled

- 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 PURWIL Connect 850+ Cooled



### 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



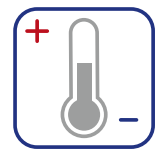
### Rugged

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



### Flexible

- Min. bending radius  $10 \times D$



### Heat / cold

- Temperature range:  $-40^{\circ}\text{C}$  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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