

RADOX® High Power Charging solutions

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The rising number of DC fast-charging stations along the highways and in the cities, has stimulated the further transition towards electric vehicles. However, the high power charging market keeps looking for innovative solutions that can further shorten the charging time while delivering stable performance at any time.

HUBER+SUHNER – the leader in HPC market

Innovative solution

Being the front runner in high power charging (HPC) market, HUBER+SUHNER keeps developing innovative cable solution to meet increasingly demanding market requirements. Thanks to its cooled cable technology, the RADOX HPC system is using environmentally friendly non-conductive coolant. This achieves the most effective direct cooling of the contacts and the power lines without any safety risk, even in the event of damage. To ensure an optimal and reliable performance, the charging station will receive the data and parameters collected from several temperature sensors and other control equipment simultaneously and constantly. The SPC controlled 24 V cooling unit can be used as a stand-alone solution in the cabinet or with an external cooling loop for the heat exchanger. Furthermore, with the integrated readiness for metering, RADOX HPC system is a future-proof solution for infrastructure manufacturers and charging stations operators.

Extensive field experience

HUBER+SUHNER has the largest number of installed cooled HPC systems in the world. The vast field experience has been incorporated in the development of RADOX HPC system, bringing many new benefits such as easier handling through further reduces the weight of the charging cable, safe charging experience, reduced installation and maintenance time and costs.



RADOX HPC system

RADOX HPC portfolio includes RADOX HPC500 and RADOX HPC200. It is designed for charging stations with an output of 50 kW up to 500 kW. It is a complete charging cable system including cooled/uncooled cable, connector and cooling system (RADOX HPC 500). The superior performance and integrated safety features make RADOX HPC system the best partner for the modern electrical charging infrastructure.

Among various high power charging solutions, the one with the capacity of continuous charging up to 500 A plays a critical role of enabling the drivers to recharge their cars within 15 minutes and enjoy a “non-stop” journey. The most noteworthy feature of RADOX HPC500 system is that it can offer continuous charging up to 500 A even in hot areas with 50 °C environmental temperatures. Furthermore, it reduces the weight of the charging cable, and hence offers users a more comfortable and safer charging experience.

RADOX HPC portfolio for DC charging

	RADOX HPC200	RADOX HPC500
System performance	200kW / 1000V	500kW / 1000V
DC continuous charging	200 A	500 A
Technology	Uncooled	Cooled
Cooling System	No	Cooling unit with heat exchanger
Connector protection	IP67	IP67
Replaceable contacts	Yes	Yes
Ready-for-metering	Yes	Yes
Interface types	CCS type-2	CCS type-1 & CCS type-2
Cable type	2x70/25mm ² + 8x0.5	2x26.5/25mm ² + 8x0.25
Temperature sensors	Yes	Yes
Application	50-150 kW Charger	120-500 kW Charger



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HUBER+SUHNER is certified according to ISO 9001, ISO 14001, OHSAS 18001, EN(AS) 9100, IATF 16949 and ISO/TS 22163 – IRIS.

Waiver

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