

hypercharger 75 hypercharger 150

75kW / 150kW fast charging system for electric vehicles

Key Features



- Benchmark current density with maximum 250ADC for the hypercharger 75 and 500ADC for the hypercharger 150
- Full power capability even at lowest vehicle battery voltage (300V)
- Future-proof wide output voltage range from 150V to 1000V
- Highly integrated system in a compact design
- Up to two vehicle outlets possible (CCS and CHAdeMO)
- Scalable power due to hypercharger power stack concept

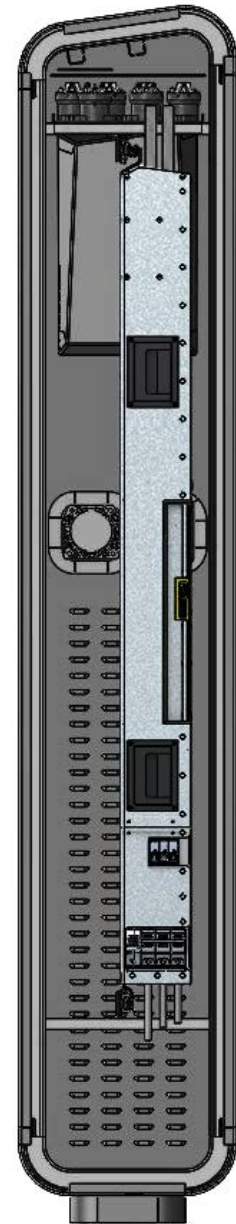
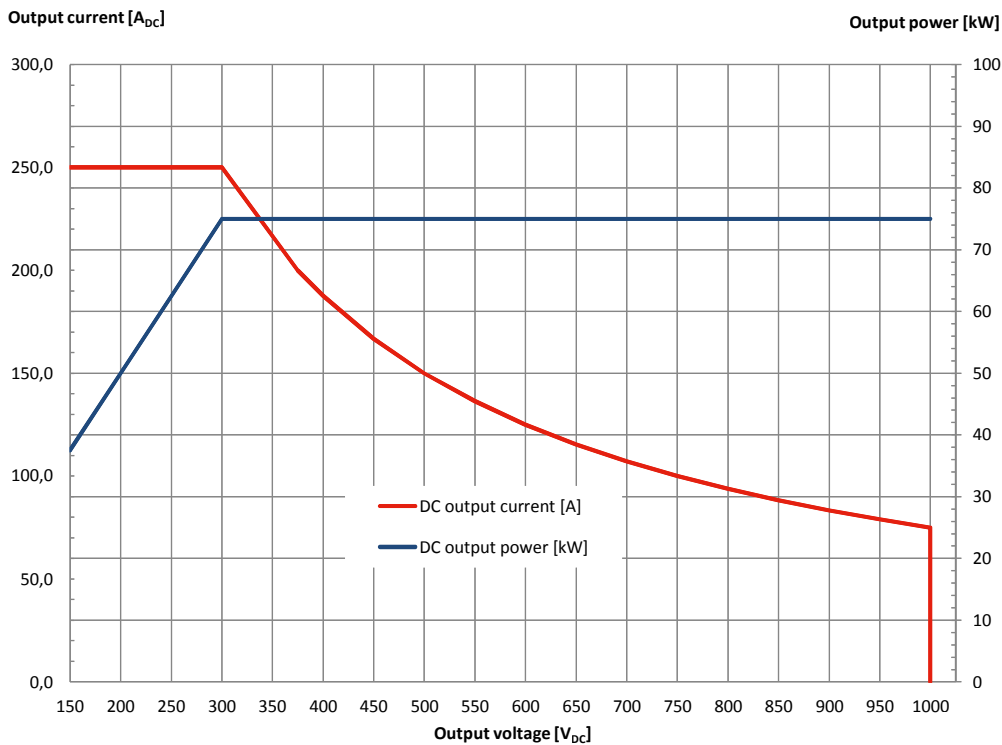
Technical Data

System Specification	
DC-connection standard	CCS1 or CCS2 uncooled cable acc. IEC 62196 CCS Combo2 active cooled cable acc. IEC 62196 Optional: CHAdeMO and/or 22kW AC plug
Ambient	In- and Outdoor installation
Working temperature	-30° to +55°C
Humidity	10% - 90% relative humidity
Protection degree	IP 54
Efficiency	94% @ full power
Operating noise level	< 65dBA
Grid	
AC Input voltages	3x400V (± 10%) / 50 Hz (± 5%) or 3x480V (± 10%) / 60Hz (± 5%)
AC Input current and power (from grid)	117 A, 80kW @ 75kW DC output power 233 A, 160kW @ 150kW DC output power
THDI in all operating points	< 7%
Power factor with active PFC correction	> 0,99
DC-Output	
Maximum DC output power	75kW (one stack), max. 250A 150kW (two stacks), max 500A
Output DC voltage range	150V - 1000V
Maximum output current	I _{max} : 250A (75kW system / uncooled cable + plug) I _{max} : 500A (150kW system with active cooled cable + plug)
General	
DC-protocol standard	EN 61851-23/DIN 70121; ISO 15118 Combo 2 Optional CHAdeMO 1.0
RFID-System	ISO/IEC 14443A/B, ISO/IEC 15693
Network connection	GSM-/CDMA-Modem, 10/100Base T-Ethernet

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Performance

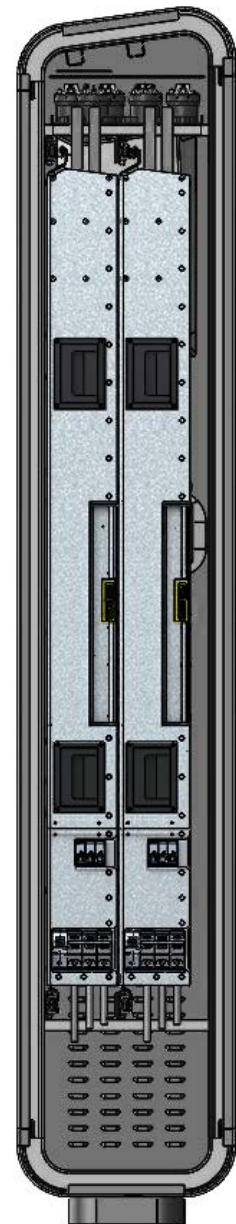
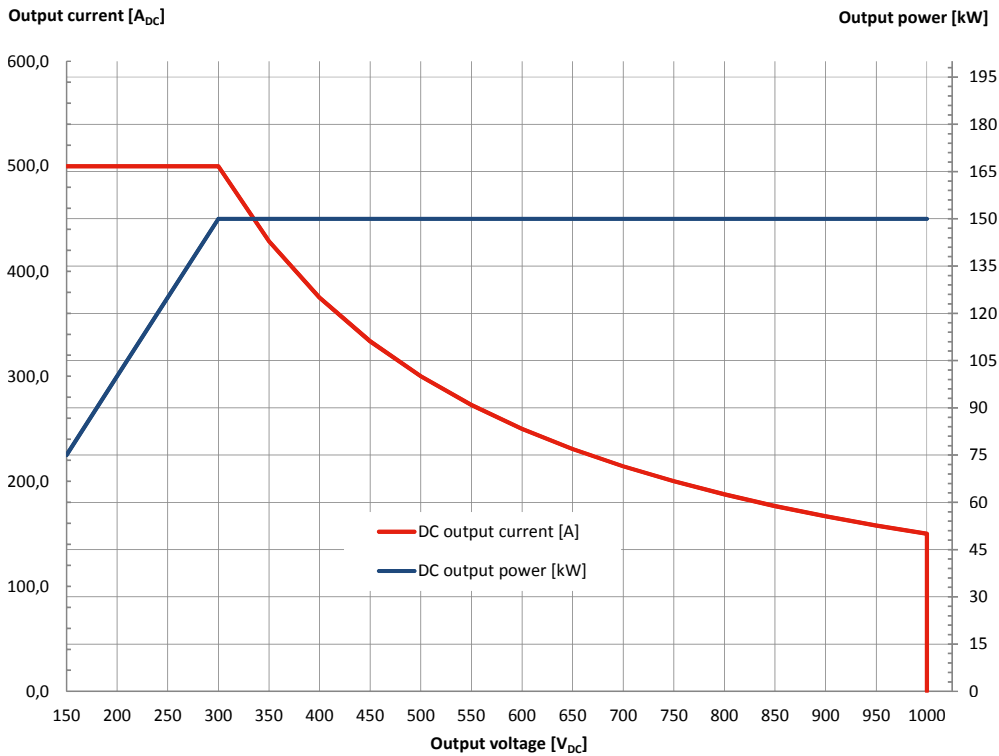
Housed in a sleek yet rugged enclosure, this system delivers 75 kW of output power. Its slim contours and remarkably compact footprint defy expectations: Even with all the power electronics on board, it slots neatly into the tightest of indoor and outdoor parking spaces. Compliant with all the pertinent norms and the OCPP protocol, hypercharger 75 configures to all charging standards, including CCS 1 and 2, CHAdeMO and GBT. Its power unit delivers 250 A of continuous maximum output current even at 300 V (empty battery) to make charging an exercise in speed. An optional AC plug is available, and a second power stack may be retrofitted to upgrade the system to 150 kW in a matter of minutes.



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Performance

Rated for 150 kW, this system delivers best-in-class power density. And all that power comes packed in a trim-but-tough housing with a very petit footprint. hypercharger 150 readily configures to all charging standards, including CCS 1 and 2, CHAdeMO and GBT, and complies with all the pertinent norms and the OCPP protocol. With a power unit that delivers 500 A of continuous maximum output current even at 300 V (empty battery), its ultra fast performance certainly lives up to the promise of its name. Service access couldn't be any easier: Simply open the rear panel.



Nomenclature

HYC _ aaa _ DCO bb _ C xx _ AC yy _ H zz

HYC

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Product Name

HYC » hypercharger

aaa

-

Power Rating

075 » 75kW hypercharger

-

150 » 150kW hypercharger

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225 » 225kW hypercharger

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300 » 300kW hypercharger

DCO bb

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DC Outlets

DCO 00 » CCS Combo 2 uncooled 200A cable

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DCO 01 » CCS Combo 2 uncooled 200A and CHAdeMO uncooled 125A cable

-

DCO 02 » CHAdeMO uncooled 125A cable

-

DCO 03 » 2 x CCS Combo 2 uncooled 200A cable

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DCO 04 » 2 x CHAdeMO uncooled 125A cable

C xx

-

Active cooled CCS cable

C 00 » no active cooled CCS cable

-

C 01 » 1 x active cooled cable instead of uncooled

-

C 02 » 2 x active cooled cable instead of uncooled

AC yy

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AC Socket

AC 00 » no Socket

-

AC 01 » additional 22kW / 32A AC Socket

H zz

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Housing option for HYC 75 or HYC 150

H 00 » hypercharger in small housing (standard)

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H 01 » hypercharger 75 or hypercharger 150 in large housing