product brief

hypercharger 225
hypercharger 300

225kW / 300kW fast charging system for electric vehicles

hypercharger
by alpitronic

Key Features

- Benchmark current density with maximum 700ADC for (cable limitation 500A currently)
- 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

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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)	352 A, 240kW @ 225kW DC output power 466 A, 320kW @ 300kW DC output power
THDI in all operating points	< 7%
Power factor with active PFC correction	> 0,99
DC-Output	
Maximum DC output power	255kW (three stack), max. 500A 300kW (four stacks), max 500A
Output DC voltage range	150V - 1000V
Maximum output current	Imax: 500A (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
Charging infrastructure communication protocol	Open Charge Point Protocol (OCPP) 1.6
User Interface	15“ screen 15“ touch screen display (optional)

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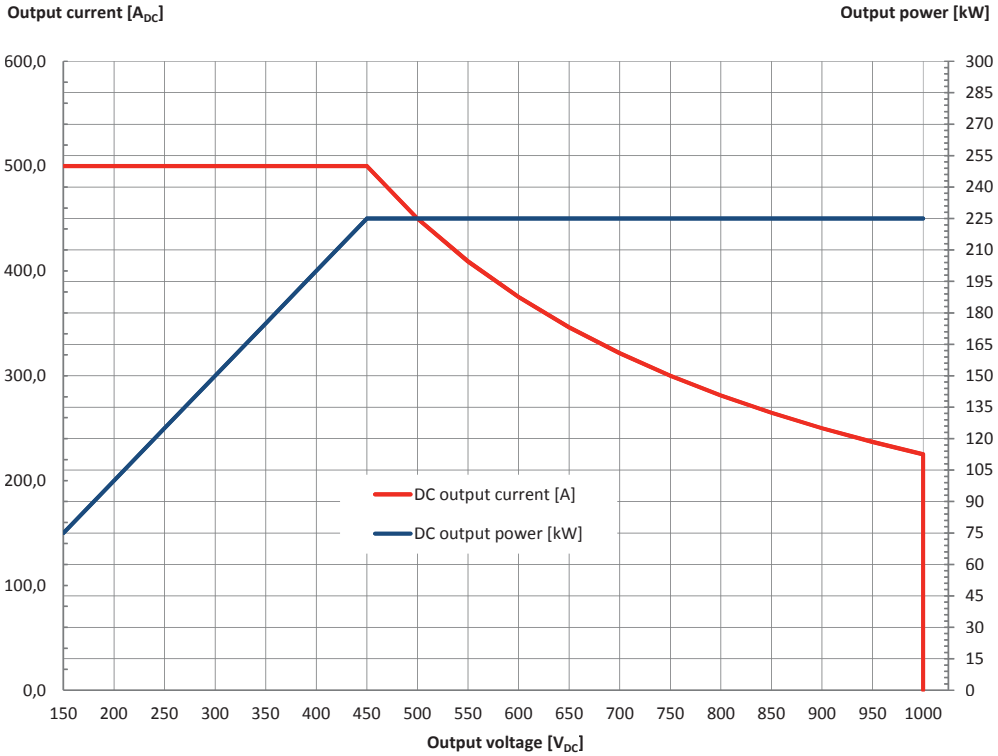
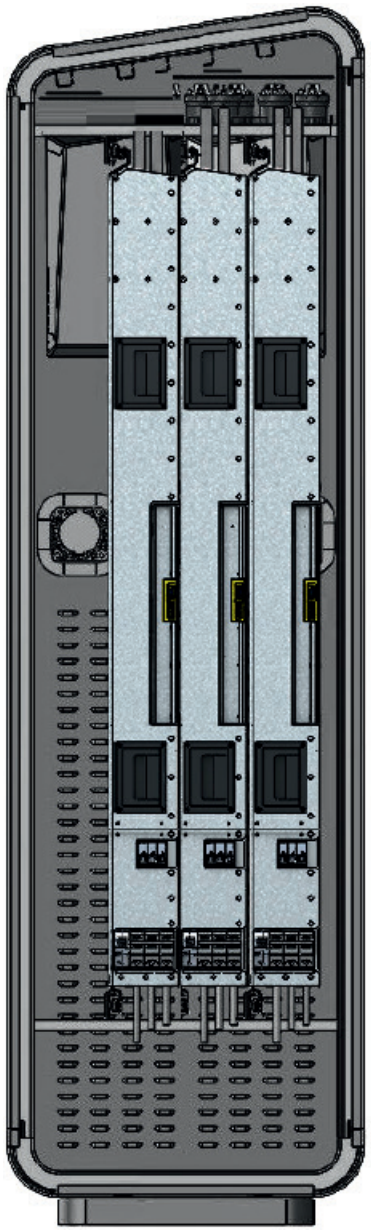
Performance

With a power rating of 225 kW, this system comes with a housing offering an upgrade to 300kW at a later stage. It provides unrivalled current capability of more than 600A limited by the current cable technology and the overall power rating. It configures to all charging standards, including CCS 1 and 2, CHAdeMO and GBT, and complies with all the norms and the OCPP protocol standards. Its ultra fast performance awaits the EVs which can cope with the ability.





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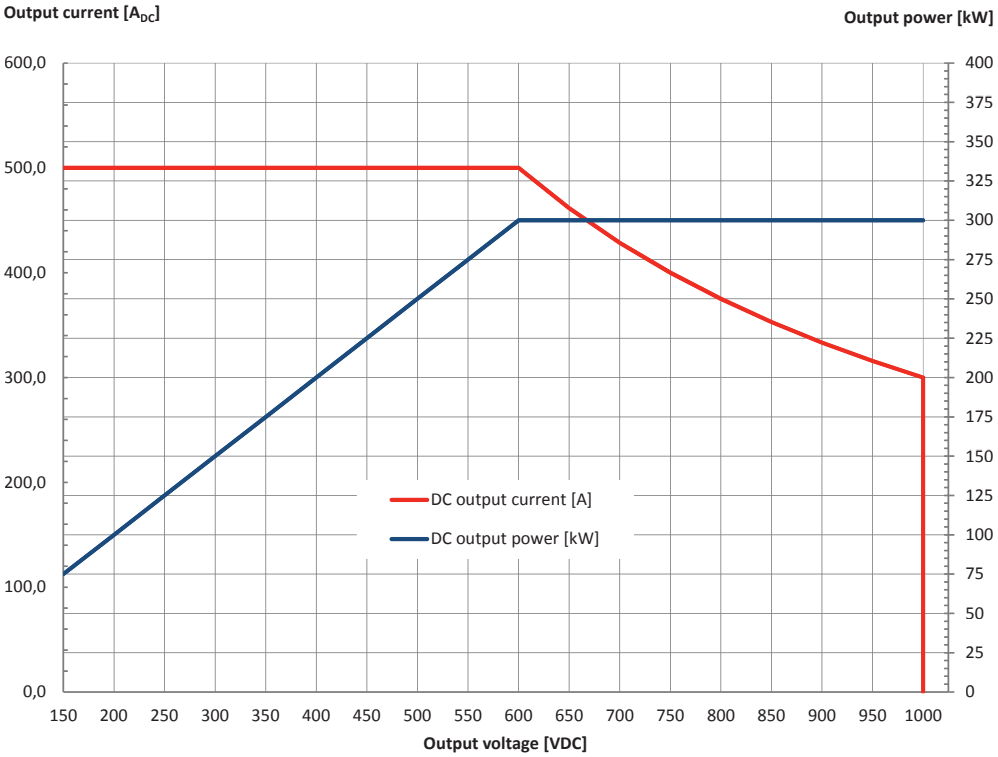
Performance

Here it comes. Our best performance device is the hypercharger 300 offering 300kW at the full temperature range and up to 350kW when temperature is derated to +30°C ambient. More than 700A could be delivered, limited only by the available cable and connector technology. The systems amazing power density – integrating all of power electronics and interfaces - enables an integration of such charging systems into critical narrow parking slot situations. The finest art of hyper-fast-charging. Modern and modular by design.



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Nomenclature

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

HYC	***Product Name***
-	HYC » hypercharger
aaa	**Power Rating**
-	**075** » 75kW hypercharger
-	**150** » 150kW hypercharger
-	**225** » 225kW hypercharger
-	**300** » 300kW hypercharger
DCO bb	***DC Outlets***
-	**DCO 00** » CCS Combo 2 uncooled 200A cable
-	**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
-	**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	***AC Socket***
-	**AC 00** » no Socket
-	**AC 01** » additional 22kW / 32A AC Socket
H zz	***Housing option for HYC 75 or HYC 150***
-	**H 00** » hypercharger in small housing (standard)
-	**H 01** » hypercharger 75 or hypercharger 150 in large housing

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