HYC1000 Series

alpitronic



Redefining charging hubs

1 MW

Up to 1 MW charging power
on a single connector

150-1000 V

150-1000 V
output range

η 98.2%

Up to 98.2%
conversion efficiency

Modular

Modular, compact
design

8 vehicles

Simultaneous DC charging
for up to 8 vehicles

62.5 kW

Granularity providing dynamic
load management

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Power Cabinet

DC output

Maximum output power	1000 kW
Granularity of output power	62.5 kW
Output DC voltage range	150-1000 VDC
Maximum DC current per output	600 A
Numbers of DC outputs	8

AC input

AC nominal voltage	400 V (or 480 V) (-10%/+10%)
AC rated input current	1600 A (2x 800A)
Frequency	50/60 Hz (-5%/+5%)
Short circuit current rating	50 kA, 20 ms
Network type	3-phase +PE, TN-C/TN-S, TT
Overvoltage category	OVC III as per EN/IEC 61140:2016 4.3.2
SPD AC	Type 1+2 (+energetic coordination Type 3)
Power factor	> 0.99 at full load
THDi	< 5% at full load
Standby power consumption	< 145 W (in power saving mode)

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Operating conditions

Operating temperature	-30° up to +55°C
Altitude	Up to 2500 m
Storage temperature	-40°C to +55°C
Humidity (in operation, storage)	10%-95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262
Noise emissions	60.6 dB(A)* *Standard environmental conditions (25°C, 1 m distance)

Dimensions & weight

Height x width x depth	2200 x 1567 x 1244 mm
Weight	Up to 2000 kg

Options

Branding	Options for custom colours (powder coating), foil application and stickers
Additional safety features	Tilt sensor, door contact switch (default)

Remote management

Features	Remote analytics, diagnostics, software updates

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MCS Dispenser

Output

Charging interfaces	MCS, CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150-1000 VDC
Maximum DC current	MCS: 1500 A oil cooled / CCS2: 600 A oil cooled
Cable length	MCS: 3.3m / CCS2: 3.0m

Input

DC current	up to 600 A per DC circuit
DC circuits from Power Cabinet	up to 3
AC supply	3-phase AC, provided by Power Cabinet
Communication with Power Cabinet	1x RJ45 Ethernet + 1x Interlock per charging cable
SPD DC	Type 2
Standby power consumption	< 82 W

Operating conditions

Operating temperature	-30° up to +55°C
Altitude	Up to 2500 m
Storage temperature	-40°C to +55°C
Humidity	10% - 95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262
Noise emissions	60.6 dB(A)*

*Standard environmental conditions (25°C, 1 m distance)

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Dimensions & weight

Height x width x depth	2320 x 260 x 780 mm
Weight	Up to 350 kg* * Depending on configuration

User interface

User interface	10.1” touch screen + push buttons

Remote management

Remote management	Remote analytics, diagnostics, software updates

Options

Branding	Options for custom colours (powder coating), foil application and stickers
Payment system	Card readers for credit cards or EC card, QR-Code-reader
Law on weights and measurements	DC meter in accordance with the German Calibration Law (Option)
Additional safety features	Crash (tilt) sensor, door contact switch (default)
Multilingual system	GUI in 27 languages

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EV Dispenser

Output

Charging interfaces	CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150-1000 VDC
Maximum DC current	CCS2: 600 A oil cooled / CCS2: 400 A uncooled
Cable lenghts	CCS2 oil cooled: 3.0m I 5.5m / CCS2 uncooled: 3.0m I 5.5m I 7.5m I 10.0m

Input

DC current	Up to 600 A per DC circuit
DC circuits from power cabinet	Up to 2
AC supply	3-phase AC, provided by Power Cabinet
Communication with power cabinet	1x RJ45 Ethernet + 1x Interlock per charhing cable
SPD DC	Type 2
Standby power consumption	< 82 W

Operating conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	Up to 2500 m
Storage temperature	-40°C to +55°C
Humidity	10% - 95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262
Noise level emissions	60.6 dB(A)*

*Standard environmental conditions (25°C, 1 m distance)

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Dimensions & weight

Height x width x depth	2320 x 260 x 630 mm
Weight	Up to 290 kg* * Depending on configuration

User interface

User interface	10.1” touch screen + push buttons

Remote management

Remote management	Remote analytics, diagnostics, software updates

Options

Branding	Options for custom colours (powder coating), foil application and stickers
Cable management system	For 5.5 m cables
Payment system	Card readers for credit cards or EC card, QR-Code-reader
Eichrecht	DC meter in accordance with the German Calibration Law
Additional safety features	Crash (tilt) sensor, door contact switch
Multilingual system	GUI in 27 languages

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HP Dispenser

Output

Charging interfaces	1x CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150-1000 VDC
Maximum DC current	>1000 A
Cable lenghts	5.5 m

Input

DC current	Up to 600 A per DC circuit
DC circuits from Power Cabinet	2
AC supply	Three-phase AC provided by Power Cabinet
Communication with Power Cabinet	1x RJ45 Ethernet + 1x InterLock
SPD DC	Type 2
Standby power consumption	< 82 W

Operating conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	2500 m
Storage temperature	-40°C to +55°C
Humidity	10%-95% relative (non-condensing)
Installation	Indoor and outdoor
Type of installation	Floor mounted on foundation or skid
Ingress protection	IP54
Impact protection	IK10 in accordance with IEC 62262

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Dimensions & weight

Height x width x depth	2320 x 260 x 630 mm
Weight	Up to 290 kg* * Depending on configuration

User interface

User interface	10.1” touch screen + push buttons

Remote management

Remote management	Remote analytics, diagnostics, software updates

Options

Branding	Options for custom colours (powder coating), foil application and stickers
Cable management system	Yes
Payment system	Card readers for credit cards or EC card, QR-Code-reader
Eichrecht	DC meter in accordance with the German Calibration Law
Additional safety features	Crash (tilt) sensor, door contact switch
Multilingual system	GUI in 27 languages

Standards

Standard protocol	CCS: IEC 61851-23, ISO 15118-2, DIN 70121
RFID system	ISO14443A/B, ISO18092

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Depot Dispenser Family

Output

Charging interfaces	1x CCS2
Granularity of output power	62.5 kW
Output DC voltage range	150-1000 VDC
Maximum DC current	400 A peak output current
Cable lenghts	2,0 m, 5,5 m and 7,5 m

Input

DC current	up to 400 A per DC circuit
DC circuits from Power Cabinet	1
AC supply	3-phase AC provided by Power Cabinet
Communication with Power Cabinet	1x RJ45 Ethernet + 1x InterLock
SPD DC	Type 2
Standby power consumption	< 25 W

Operating conditions

Operating temperature	-30° up to +55°C (with derating above +40°C)
Altitude	2500 m
Storage temperature	-40°C to +55°C
Humidity	10%-95% relative (non-condensing)
Installation	Indoor and outdoor
Ingress protection	IP55
Impact protection	IK10 in accordance with IEC 62262

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Dimensions & weight

Height x width x depth	600 x 400 x 250 mm
Weight	Up to 35 kg* + cable weight itself * Depending on configuration

User interface

User interface	RFID and interface for external stop button

Remote management

Remote management	Remote analytics, diagnostics, software updates

Options

Branding	Options for custom foil application and stickers
Cable management system	Plug holder, cable holder
Eichrecht	DC meter in accordance with the German Calibration Law
Mounting position	Wall, Ceiling/Gantry, Pedestal
Additional safety features	Crash (tilt) sensor, door contact switch

Standards

Standard protocol	CCS: IEC 61851-23, ISO 15118-2, DIN 70121
RFID system	ISO14443A/B, ISO18092

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Norms, compliance & standards

Communication standards (EVSE - EV)	IEC 61851-23 / DIN SPEC 70121; ISO 15118; MCS: IEC 61851-23-3 FDIS
RFID system	RFID reader (ISO/IEC 14443A/B, ISO/IEC 15693)
Network connections	LTE/4G connectivity 10/100Base-TX Ethernet
Communication standards for the charging infrastructure (EVSE - CPMS)	Open Charge Point Protocol (OCPP) 1.6 J, 2.0.1 J
EU directive	2014/53/EU (RED), 2011/65/EU (RoHS2), 2015/863/EU (RoHS2), 2012/19/EU (WEEE), 1907/2006 (REACH Regulation)
Electrical safety	IEC 61851-1, IEC 61851-23, IEC 62311
RED	ETSI EN 300 330; ETSI EN 301 511, ETSI EN 301 908-1
EMC	EN 61000-6-4, EN 61000-6-2, IEC 61851-21-2 (INDUSTRIAL ENVIRONMENTS), ETSI EN 301 489-1, ETSI EN 301 489-3; ETSI EN 301 489-52

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