HYC400 Series 2

alpitronic

Proven performance. Enhanced experience.

Accessibility

Single-side charger access
for simplified site design

22” screen

New frontal display with
22” touchscreen & buttons

η 98.2%

Peak conversion
efficiency up to 98.2%

1200 A

Max total DC output
(2x 600 A continuous)

2 cars

Simultaneous DC charging
for up to 2 cars

50 kW

Granularity providing dynamic
load management

System specifications

DC interfaces	CCS2 up to 600 A
Load and charging management	Smart, dynamic allocation of power modules and distribution of charging power to charging points.
Operating temperature	-30° up to +55° C
Operating height	≤ 4,000 m a.s.l.
Environmental conditions, in storage	-40° up to +55° C
Environmental conditions, under transport	-40° up to +70° C
Humidity (in operation, storage)	10% - 95% relative (non-condensing)
Protective class	Class I (protective earth connection)
Environment pollution degree	Class 4
Noise emission	< 52 dBA* *Standard environmental conditions (20° C, 1 m distance)
Installation location	Indoor and outdoor installation
Type of installation	Floor mounted on plinth or base (Optional concrete foundation base)
Inlet cable	2x 240 mm² per phase (default) 2x 300 mm² per phase, max. ∅ 33 mm per conductor (option)
Protection rating	IP54
Impact resistance	IK10 in accordance with IEC 62262
Dimensions (H x W x D)	2185 x 732 x 663 mm
Weight	560 kg up to 890 kg* * Depending on configuration
User interface	22” widescreen display, touchscreen, 4 buttons
Accessibility	barrier-free for the operating elements (in accordance with DIN 18040-3)
Remote Management	Remote access, diagnostics, software updates

Power supply

AC nominal voltage (RMS)	400 V
AC maximum input current (RMS)	630 A
Frequency	50 Hz | 60 Hz
Network type	3phase TN-C | TN-S | TN-C-S | TT
Power Factor	> 0.99 @ full load
Controllable PF range	±0.95
THDi	< 5% @ full load
Efficiency	up to 97.7% @ full load
Overvoltage category	OVC III, DIN EN 60664-1
Integrated coordinated lightning protection (SPD)	Type 1 + 2
Standby power consumption	< 100W

Charging interfaces

Maximum total DC output power	100 kW (one SiC-Stack), max. 300 A 200 kW (two SiC-Stacks), max. 600 A 300 kW (three SiC-Stacks), max. 1 x 600 A + 1 x 300 A or 2 x 450 A 400 kW (four SiC-Stacks), max. 2 x 600 A
Granularity of output power	50 kW
Maximum output current	600A continuous
Output DC voltage range	150 Vdc - 1000 Vdc
Charging connection options	CCS2 up to 600 A
Cable lengths	5 m or 5.5m with Cable Management System (CMS)

Configuration Options

Branding	Options for custom colours (powder coating), foil application and stickers
CMS (Cable Management System)	For 5m and 5.5m cables, provides ease of use and ensures a longer cable lifespan
Mounting	Floor mounted on plinth or base (Optional concrete foundation base)
Payment system	Choose between different card readers for credit cards or EC card, QR-Code-reader;
Law on Weights and Measurements	DC meters with additional display available in accordance with the German Calibration Law and MID Meter in accordance with MID Directive and LNE
Parameterization of noise levels	Parameters can be set for the maximum noise level for day and night operation (e.g. for use in sensitive areas)
Additional safety features	External emergency stop (option), crash (tilt) sensor (option), door contact switch (default);
Multilingual system	GUI in 27 languages

Norms, compliance and standards

Communication standards (EVSE - EV)	IEC 61851-24 / DIN SPEC 70121; ISO 15118
RFID system	RFID reader (ISO/IEC 14443A/B, ISO/IEC 15693)
Network connections	LTE/UMTS/GSM Modem 4G/3G/2G (MIMO) 10/100Base-T Ethernet
Communication standards for the charging infrastructure (EVSE - CPMS)	Open Charge Point Protocol (OCPP) 1.6 J, 2.0.1 J
Certifications	TÜV SÜD CB (PENDING)
EU Directive	2014/53/EU (RED), 2011/65/EU (RoHS2), 2015/863/EU (RoHS3), 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