

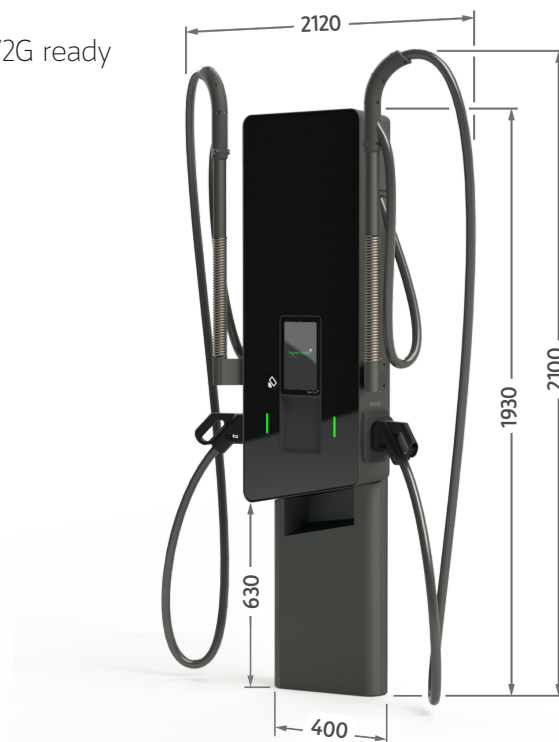
# HYC50

Bidirectional 50kW (2 x 25kW) DC-charging station for EVs

## Key features



- First 50 kW wall mountable fast charger on market
- 50 kW charging on one vehicle or 2x 25 kW parallel charging possible
- Continuous 150 A charging current
- Best in class efficiency 97%
- In- and outdoor installation
- Ultra low noise level < 50 dBA
- V2G ready



Measurements in mm

### Product data sheet hypercharger 50

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## Technical data

SYSTEM SPECIFICATIONS	
DC interfaces	CCS1 and CCS2 (150A) CHAdeMO (125A) GBT (125A)
Payment system	Choose between different card readers for credit cards or EC cards
Load and charging management	Smart, dynamic allocation of power modules and distribution of charging power to charging points
Environmental conditions, in operation	-30° up to +55° C (derating from 40° C), Operating height ≤ 4,000 m
Environmental conditions, in storage	-40° up to +55° C (1K22*/1Z2/1B1/1C2/1S10/1M10) * Minimum temperature in deviation from the standard
Environmental conditions, under transport	-40° up to +70° C (2K12*/2B1/2C2/2S1/2M4) * Minimum temperature in deviation from the standard
Humidity (in operation, storage)	0% - 95% relative (non-condensing)
Efficiency	up to 97%
Protective class	Class I (protective earth connection)
Degree of pollution	Class 4
Noise emission	< 50 dBA* * According to ISO 11203 Standards
Installation location	Indoor and outdoor installation
Type of installation	Wall mount or pedestal (optional foundation base in concrete)
Protection rating	IP55
Impact resistance	IK10 in accordance with IEC 62262
Dimensions (H x W x D)	1300 x 520 x 250 mm
Weight	95 - 145 kg
Accessibility	Barrier-Free Access

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POWER SUPPLY	
AC input voltage	3x 230/277 V (400/480 V) / 50/60 Hz (+10%, -15%)
Mains type	TN-C, TN-S, TN-C-S or TT
AC Input current and power (line-side)	90 A, 52 kW at 50 kW DC output power, maximum 150 A
THDi (Total harmonic distortion)	<5% at nominal power
Power factor	>0.99 (active PFC input level) or 0,9 ind ... 1 ... 0,9 cap
Overvoltage category	OVC III, DIN EN 60664-1
Integrated lightning protection	Lightning protection module type 1 + type 2 + type 3
Standby power consumption	27 W
CHARGING INTERFACE	
Maximum total DC output power	50 kW when charging one vehicle 2 x 25 kW in parallel charging mode of 2 vehicles
Output DC voltage range	150Vdc - 1000Vdc
Charging connection options	CCS1 and CCS2 (150 A) CHAdeMO (125 A) GBT (125 A)
Cable lengths	2.7 m or 4.45 m with Cable Management System, specific lengths on request
NORMS AND STANDARDS	
Certifications	CE, RED
EU Directives	2014/35/EU (Low Voltage Directive), 2011/65/EU (RoHS), 2017/2102 (RoHS2), 2012/19/EU (WEEE), 1907/2006 (REACH Regulation)
Charging and safety standards	IEC 61851-1, IEC 61851-23, IEC 62477-1, IEC 61439-1, IEC TS 61439-7, IEC 61851-24, EN 62311, EN 50364
EMV	FCC 47 CFR Part 15B and ICES-003:2017 and 2016, EN 61000-6-4:2007/A1:2011 EN 61000-6-2:2005, IEC 61851-21-2:2018 (Industrial Environments), ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-3 V2.1.1 (2019-03), ETSI EN 301 489-17 V3 2 4 (2020-09), ETSI EN 301 489-52 V1.1.0 (2016-11);
EMV radio installations	ETSI EN 301 511 V12.5.1 (2017-03), ETSI EN 301 908-1 V13.1.1 (2019-11) /V15.1.1 (2021-09), ETSI EN 301 328 V2.2.2 (2019-07), ETSI EN 301 893 V2.1.1 (2017-05), ETSI EN 301 330 V2.1.1 (2017-02);

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GENERAL	
DC standard protocol (communications with the vehicle)	CCS1/2: SAE J1772 / EN 61851-24/DIN SPEC 70121; ISO 15118 CHAdeMO 1.2 GB/T 27930 (for vehicle multicharger)
RFID system	ISO/IEC 14443A: MIFARE Classic EV1 <sup>4)</sup> , MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1 <sup>1)</sup> , MIFARE Plus S <sup>2)</sup> , X <sup>2)</sup> , MIFARE Pro X <sup>1)</sup> , MIFARE Smart MX <sup>1)</sup> , MIFARE Ultralight, MIFARE Ultralight C <sup>3)</sup> , MIFARE Ultralight EV1 <sup>4)</sup> , NTAG2xx <sup>4)</sup> , PayPass <sup>1)</sup> , SLE44R35 <sup>1)</sup> , SLE66Rxx (my-d move) <sup>1)</sup> , LEGIC Advant <sup>1)</sup>  <sup>1)</sup> only UID <sup>2)</sup> Security level support <sup>3)</sup> without encryption <sup>4)</sup> r/w extended security options available upon request
Network connections	Mobile 4G LTE/2G, Ethernet 10/100Base-TX, WiFi 802.11 a/b/g/n/ac 2.4 and 5 GHz
Communications protocol for the charging infrastructure	Open Charge Point Protocol (OCPP) 1.6 JSON
User interface	10.1" touch screen
Bidirectional charging	V2G Ready
Useful life	min. 10 years (not including wear parts)
CONFIGURATION OPTIONS	
Branding	Printed design front panel
CMS (Cable Management System)	Mandatory feature for 4.45 m charging cable, for a higher degree of usability
Law on Weights and Measurements	DC meters available in accordance with the German Calibration Law
Parametrisation of noise levels	Parameters can be set for the maximum noise level for day and night operation (eg. for use in sensitive areas)
Remote management	Remote access, diagnostics, software updates