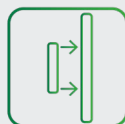


hyc50

Bchargy®

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



First 50 kW wall mountable fast charger on market



50 kW charging on one vehicle or
2x 25 kW simultaneous charging



In- and outdoor installation



Low noise level <math>< 50 \text{ dBA}^{(1)}</math>
Silent mode

Up to **97%**
efficiency under full load

150 A
continuous charging

Bidirectional
native design



(1)Standard environmental conditions (20° C, 3 m distance.)



System Specifications

DC interfaces	CCS1 and CCS2 (150 A) CHAdeMO (125 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.* <small>*For configuration with CHAdeMO cables, the max. installation height is limited to 2,000 m a.s.l.</small>
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)
Efficiency	up to 97%
Protective class	Class I (protective earth connection)
Environment pollution degree	Class 4
Noise emission	< 50 dBA* <small>*Standard environmental conditions (20° C, 3 m distance.)</small>
Installation location	Indoor and outdoor installation
Type of installation	Wall mount or pedestal (optional foundation base in concrete)
Protection rating	IP54
Impact resistance	IK10 in accordance with IEC 62262
Dimensions (H x W x D)	1300 x 520 x 250 mm
Weight	95 - 145 kg* <small>*Depending on the configuration</small>
Accessibility	Barrier-Free Access
User interface	10.1" touch screen
Remote Management	Remote access, diagnostics, software updates



Power Supply

AC nominal voltage (RMS)	400 V -15% +10%
AC maximum input current (RMS)	90 A
Frequency	50 Hz 60 Hz
Network type	3phase TN-C TN-S TN-C-S TT
Controllable PF range	±0.95
THDi (Total harmonic distortion)	< 5% @ full load
Power factor	> 0.99 (@ full load)
Efficiency	up to 97% @ full load
Overvoltage category	OVC III, DIN EN 60664-1
Integrated coordinated lightning protection (SPD)	Type 1 + 2 + 3
Standby power consumption	25 W* *Without payment terminal

Charging Interfaces

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	150 Vdc - 1000 Vdc
Charging connection options	CCS1 and CCS2 (150 A) CHAdeMO (125 A)
Cable lengths	4.45 m with Cable Management System (CMS)

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
Mounting	Wall mounted or pedestal
Payment system	Choose between different card readers for credit cards or EC card
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 (e.g. for use in sensitive areas)
Multilingual system	GUI in 27 languages

Norms, compliance and standards

DC standard protocol (communications with the vehicle)	CCS1/2: SAE J1772 / EN 61851-24/DIN SPEC 70121; ISO 15118 CHAdeMO 1.2;
RFID system	ISO/IEC 14443A: MIFARE Classic EV1 ⁴⁾ , MIFARE Classic, MIFARE Mini, MIFARE DESFire EV1 ¹⁾ , MIFARE Plus S ²⁾ , X ²⁾ , MIFARE Pro X ¹⁾ , MIFARE Smart MX ¹⁾ , MIFARE Ultralight, MIFARE Ultralight C ³⁾ , MIFARE Ultralight EV1 ⁴⁾ , NTAG2xx ⁴⁾ , PayPass ¹⁾ , SLE44R35 ¹⁾ , SLE66Rxx (my-d move) ¹⁾ , LEGIC Advant ¹⁾ ¹⁾ only UID ²⁾ Security level support ³⁾ without encryption ⁴⁾ r/w extended security options available upon request
Network connections	Mobile 4G LTE/2G, Ethernet 10/100Base-TX
Communications protocol for the charging infrastructure	Open Charge Point Protocol (OCPP) 1.6 JSON
Certifications	TÜV Süd CB DE3-D0030
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 61439-7 (as required by IEC 61851 series), IEC 62311;
RED	ETSI EN 301 330, ETSI EN 301 511, ETSI EN 301 908-1, ETSI EN 301 893, ETSI EN 301 328;
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;