



PLUGGING INTO THE FUTURE

As we see a marked shift, where everything is connected electrically, and shared mobility becomes the norm, the transition towards clean transportation, fleet management will improve and we will see less traffic through a higher degree of mobility sharing, which will help to build a sustainable world. Nordische Technologies offers a total EV charging solution from compact, high-quality affordable AC wall and pillar mounted and reliable EV charging stations with robust cloud connectivity to innovative on-demand electric two wheeler / three wheeler charging systems, with infrastructure solutions that meet the needs of the next generation of smarter mobility.

» Nordische is proud to be a Marketing Partner of ABB for its range of Charging Stations in India.




The home of charging

Terra DC wallbox

Developed with leading electric vehicle manufacturers, trusted by energy suppliers and governments, the Terra DC wallbox makes fast charging safe, smart and future-compatible. Backed by 130 years of innovation and a decade in e-mobility, the DC wallbox supports the continuous advance of electric vehicles.




Marketed by Nordische




Intelligent design: compact, convenient, connected

- Space-savings with easy-to-install design
- User-friendly interface for convenient charging
- Broad range of connectivity options



Futureproof: ROI maximized

- Fully compatible with current and future EVs
- Remote software updates
- Smart functionality means optimized and cost-efficient charging



Safety: built-in protection

- Evaluated and tested to the highest independent standards
- Safe for use in residential settings
- Integrated ground-fault and trip protection

Terra DC wallbox

Technical features

Load management

- Smart charging via OCPP
- Setup for external energy meter integration for dynamic load management
- Ready for integration with advanced smart building energy system

Built-in safety

- Overcurrent
- Overvoltage and undervoltage
- Ground fault
- Surge protection
- PE (protective earth) continuity monitoring
- Leakage current monitor protection

Connectors

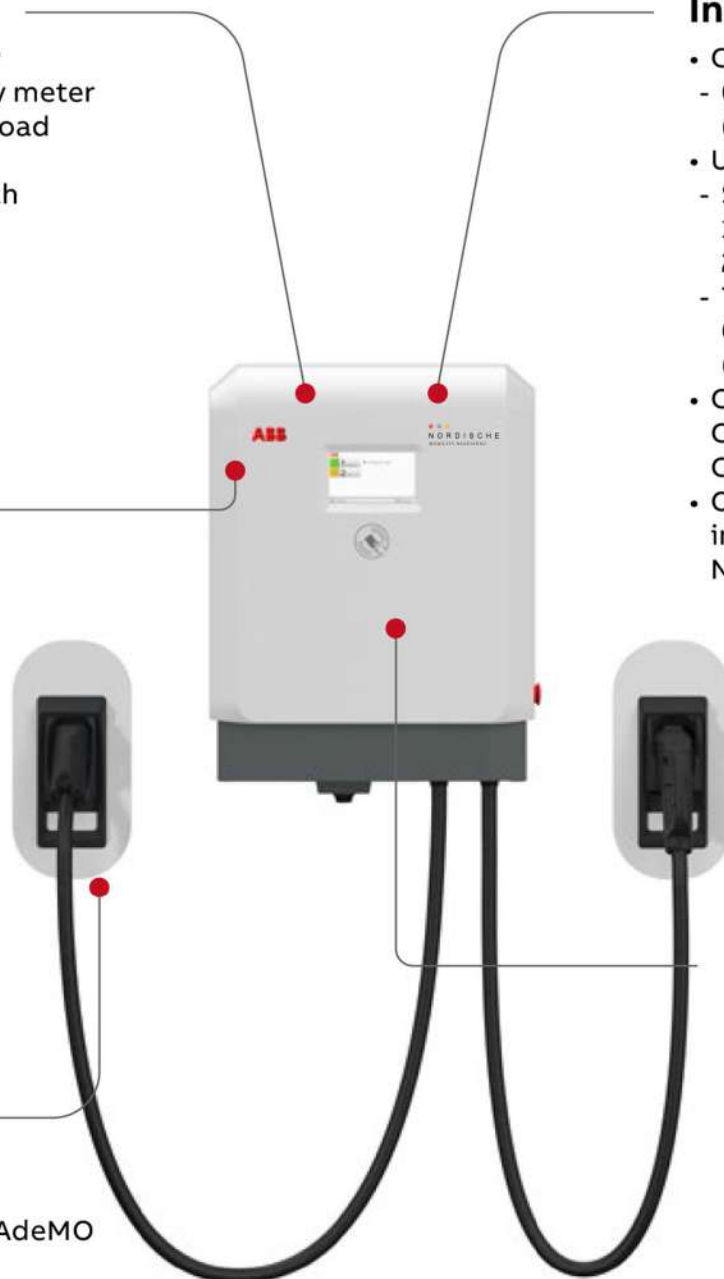
- CE variants:
 - Single output: CCS2
 - Dual output: CCS2 + CHAdeMO
- UL variants:
 - 1-Phase input, single output: CCS1
 - 1-Phase input, dual output: CCS1 + CHAdeMO
 - 3-Phase input, single output: CCS1
 - 3-Phase input, dual output: CCS1 + CHAdeMO

Intelligent design

- CE variants:
 - 0–22.5 kW, 24 kW (peak) / 60 A
- UL variants:
 - Single phase: 19.5 kW @ 208 V/60 A, 22.5 kW @ 240 V/60 A
 - Three phase: 0–22.5 kW, 24 kW (peak) / 60 A
- Charging Voltage:
 - CCS: 150 – 920 V DC
 - CHAdeMO: 150–500 V DC
- Outdoor and indoor installation
NEMA 3 & IP54

Connectivity

- GSM / 3G / 4G
- Ethernet
- RFID

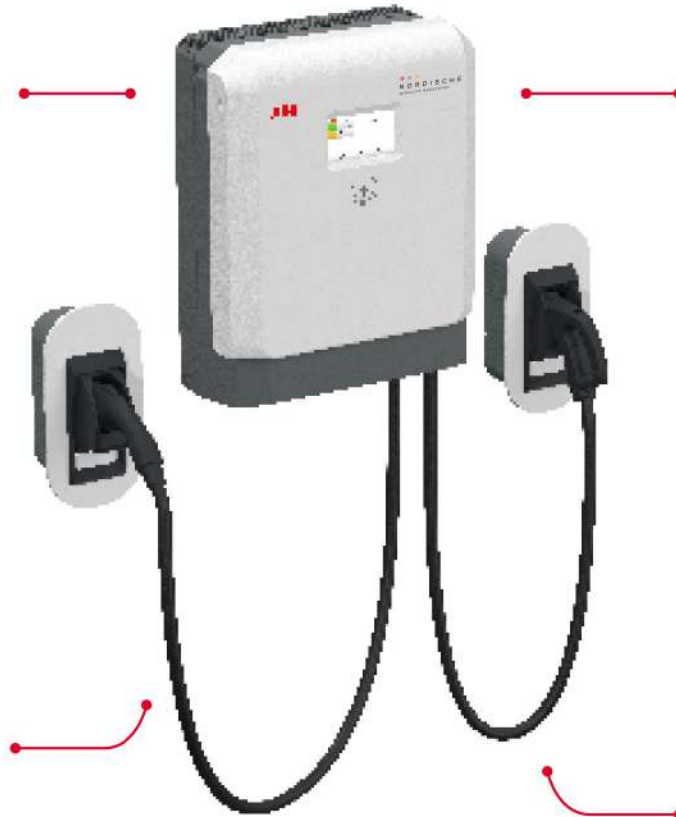


Terra DC wallbox

The smart e-mobility investment

Limited changes required to existing electrical infrastructure due to reduced power requirements

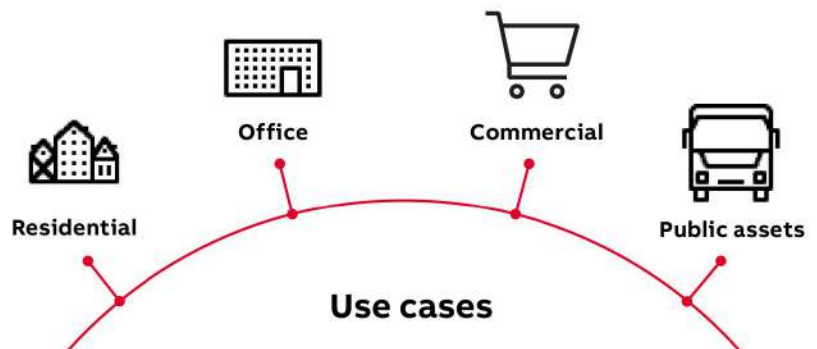
Enabled for smart charging via OCPP to balance load demands and reduce infrastructure costs



Increasing revenue opportunities for operators and owners by supporting current and future electric vehicles with high voltage charging

Developed with leading electric vehicle manufacturers, trusted by energy suppliers and governments, the Terra DC wallbox makes fast charging safe, smart and future-compatible

Terra DC wallbox is a future-proof investment supporting current and future EVs with high voltage charging, applicable to a wide variety of use cases, in an ultra-compact footprint, that is safe and reliable, for residential use too.



Residential
Multi-tenant homes, residential communities

Office
Small and large offices, business parks and complexes

Commercial
Hotels & hospitality sports institutions, shopping centres, commercial fleets, public or private campus, parking structures, car dealerships, race tracks

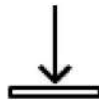
Public assets
Bus depots, utility, sensitive grid applications

Terra DC wallbox benefits

Intelligent design: compact, convenient, connected



The DC wallbox with **ultra-compact footprint** enables flexibility in installation to serve a variety of site conditions



Intuitive interface with a **user-friendly 7-inch color touch screen** and easy-reach cables for convenient parking and charging



Broad range of connectivity options including **3G/4G modem, Ethernet and GSM for easy control** and integration with existing infrastructure

Future-proof: ROI maximized



High voltage charging capabilities supporting the EVs from today and into the future



Enabled for smart charging via OCPP to balance load demands and reduce infrastructure costs



Connection to ABB Ability platform manages over-the-air-authentication and payment, remote diagnostics, software updates and **asset monitoring**

Safety: built-in protection



Evaluated and tested to the highest standards by independent, third party safety certification organizations



Certified with EMC Class B protection for safe use in residential areas



Integrated ground-fault and trip protection protect both user and car

Technical specification

	DC Wallbox 24 kW IEC version	DC Wallbox 24 kW UL version 1-phase	DC Wallbox 24 kW UL version 3-phase
DC output connection			
Charging mode	Type 4: CCS 2, CHAdeMO	Type 4: CCS 1, CHAdeMO	Type 4: CCS 1, CHAdeMO
Number of outputs	Standard: single output CCS2 Optional: dual output CHAdeMO + CCS 2	Standard: single output CCS1 Optional: dual output CHAdeMO + CCS 1	Standard: single output CCS1 Optional: dual output CHAdeMO + CCS 1
Number of simultaneous charging session	Single	Single	Single
Output power rating	0 ... 22.5 kW, 24 kW (peak)	19.5 kW - 208 V 22.5 kW - 240 V	0 ... 22.5 kW, 24 kW (peak)
Output current	60 A DC	60 A DC	60 A DC
Output voltage	CCS: 150 ... 920 V DC CHAdeMO: 150 ... 500 V DC	CCS: 150 ... 920 V DC CHAdeMO: 150 ... 500 V DC	CCS: 150 ... 920 V DC CHAdeMO: 150 ... 500 V DC
Average efficiency at full power	≥ 95 %	≥ 95 %	≥ 95 %
AC input connection			
Earthing system	3P, N, PE	2 wire (e.g. L1 - N, L1 - L2) + PE Note that a neutral wire may not be available.	3P, N, PE
Input current	3-phase, 40 A	100 A	3 phase, 32 A
Input voltage	3-phase 400 V AC +/- 10 %	208 ... 240 V AC two wire +/- 10%	3 phase 480 V AC +/- 10 %
Input frequency	50 Hz	50 / 60 Hz	50 / 60 Hz
Input protection	External circuit breaker (not included)	External circuit breaker (not included)	External circuit breaker (not included)
Power factor	> 0.96	> 0.96	> 0.96
Harmonic distortion (THDi)	< 8 %	< 8 %	< 8 %
General characteristics			
Dimensions	770 x 584 x 294 mm	770 x 584 x 294 mm	770 x 584 x 294 mm
H x W x D	30.31 x 22.99 x 11.57 inches	30.31 x 22.99 x 11.57 inches	30.31 x 22.99 x 11.57 inches
IP rating	IP54	IP54	IP54
IK rating	IK10 (IK08 for HMI)	IK10 (IK08 for HMI)	IK10 (IK08 for HMI)
NEMA enclosure type		NEMA 3 outdoor	NEMA 3 outdoor
Operating altitude	2500 m (8200 ft)	2500 m (8200 ft)	2500 m (8200 ft)
Operating temperature range	-35 ... +45 °C	-35 ... +45 °C	-35 ... +45 °C
Mounting	Wall or floor using a pedestal	Wall or floor using a pedestal	Wall or floor using a pedestal
Emergency stop button type	Push button	Push button	Push button
Electromagnetic compatibility	IEC 61000-6-3 Class B, suitable for residential environment	EMC Class A	IEC 61000-6-3 Class B, suitable for residential environment
User Interface			
Screen type	7 LCD touchscreen display	7 LCD touchscreen display	7 LCD touchscreen display
Languages	English as standard Others languages available via software configuration	English as standard Others languages available via software configuration	English as standard Others languages available via software configuration
Standby indicator	Yes	Yes	Yes
Connectivity	Cellular connection 3G/4G 2 port RJ45 Ethernet	Cellular connection 3G/4G 2 port RJ45 Ethernet	Cellular connection 3G/4G 2 port RJ45 Ethernet
Communication protocol	OCPP 1.5 / 1.6	OCPP 1.5 / 1.6	OCPP 1.5 / 1.6
User authentication	RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more) On-screen PIN code authentication OCPP support of ISO 15118 Plug&Charge is according to publicly available and commonly recognized implementation whitepaper Please contact your ABB local organization	RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more) On-screen PIN code authentication OCPP support of ISO 15118 Plug&Charge is according to publicly available and commonly recognized implementation whitepaper Please contact your ABB local organization	RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more) On-screen PIN code authentication OCPP support of ISO 15118 Plug&Charge is according to publicly available and commonly recognized implementation whitepaper Please contact your ABB local organization
Configuration			
Software update	OCPP 1.6, ABB web portal	OCPP 1.6, ABB web portal	OCPP 1.6, ABB web portal
Remote control and configuration via ABB Ability connected services	Authentication Payment Monitoring Remote diagnostic Repair	Authentication Payment Monitoring Remote diagnostic Repair	Authentication Payment Monitoring Remote diagnostic Repair
Remote control and configuration via local service tool	Please contact your ABB local organization	Please contact your ABB local organization	Please contact your ABB local organization
Certification and standards			
Codes and standards	EN 61851- 1 EN 61851-2 UL 2202	EN 61851- 1 EN 61851-2 UL 2202	EN 61851- 1 EN 61851-2 UL 2202



PLUGGING INTO THE FUTURE

Terra AC wallbox.

Terra AC wallbox

To serve a growing market



Reducing cost of EVs

EVs will be cheaper than internal combustion engine (ICE) alternatives by the mid-to-late 2020s in almost every market

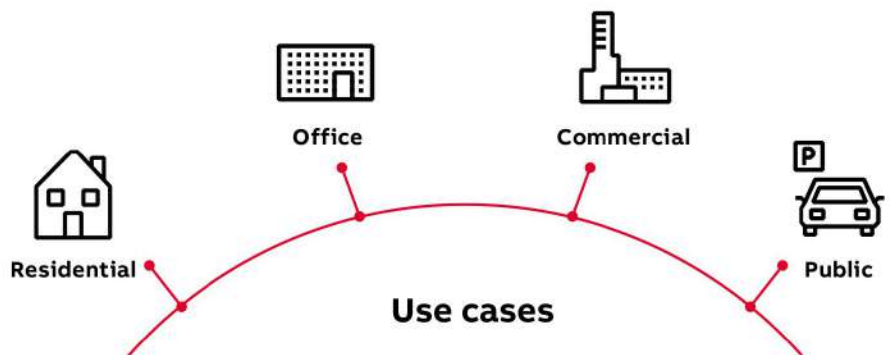
Global EV sales

Electric vehicles will represent 57% of global passenger car sales by 2040

Passenger EV sales

Passenger EV sales will rise to 28 million in 2030 and 56 million by 2040

Terra AC wallbox provides tailored, intelligent and networked charging solutions for any business, home or location.



At home

From private homes to multi-tenant homes and residential communities

At work

From small offices to large offices, business parks and complexes

Commercial locations

From hotels to sports institutions and shopping centres

While parking

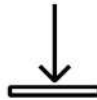
While on the street or in a car park

Terra AC wallbox benefits

High-value quality



The **best value AC charger** on the market, providing the exceptional quality expected of the world leader in EV charging.



Enabled for **remote software updates** to ensure optimal performance while minimizing the need for onsite intervention.



Broad range of connectivity options including Wifi, Bluetooth and Ethernet for easy control and integration with existing infrastructure.

Futureproof flexibility



Smart functionality means the wallbox can adapt its power usage and provide optimal charging, today and into the future.



Set up for **energy meter integration** to provide dynamic load management, reducing energy costs and preventing nuisance tripping of distribution protective devices.



Dedicated App provides easy authentication and control of the AC charger, along with insight into charging status for users.

Safety and protection



Evaluated and tested to the highest standards by independent, third party safety certification organizations.



Current limiting protection allows maximum charging power without nuisance tripping, aligned with the design of a given building's electrical distribution system.





Integrated protections including DC ground fault and over voltage protect both user and car.

Smarter charging

EU portfolio

AC charger for electric vehicles, type 2


Power supply network: 220 ... 240 V single phase and 380 ... 415 V three phase, 50 / 60 Hz

	Rated power (kW)	Max. current (A)	Socket outlet or connector type	Other features	Type	Order code	Weight Pkg (1pce) (kg)
	3.7	16	Socket with shutter, type 2	-	TAC-W4-S-0	ABB6AGC082587	2
	7.4	32	Socket, type 2	-	TAC-W7-T-0	ABB6AGC081278	2
			Cable 5 m, type 2	RFID	TAC-W7-G5-R-0	ABB6AGC082155	3.5
	7.4	32	Socket, type 2	RFID, 4G	TAC-W7-T-RD-MC-0	ABB6AGC082174	2
	Three phase						
	11	16	Cable 5 m, type 2	RFID	TAC-W11-G5-R-0	ABB6AGC082156	3.5
	22	32	Socket, type 2	-	TAC-W22-T-0	ABB6AGC081279	2
			Socket, type 2	RFID	TAC-W22-T-R-0	ABB6AGC082152	2
			Socket, type 2	RFID, 4G	TAC-W22-T-R-C-0	ABB6AGC082153	2
			Socket with shutter, type 2	RFID	TAC-W22-S-R-0	ABB6AGC082589	2
			Socket with shutter, type 2	RFID, 4G	TAC-W22-S-R-C-0	ABB6AGC082154	2
			Cable 5 m, type 2	RFID, 4G	TAC-W22-G5-R-C-0	ABB6AGC082157	3.5
Three phase with display and MID certification							
	22	32	Socket, type 2	RFID	TAC-W22-T-RD-M-0	ABB6AGC081280	2
			Socket, type 2	RFID, 4G	TAC-W22-T-RD-MC-0	ABB6AGC081281	2
			Socket with shutter, type 2	RFID, 4G	TAC-W22-S-RD-MC-0	ABB6AGC081282	2
			Cable 5 m, type 2	RFID, 4G	TAC-W22-G5-RD-MC-0	ABB6AGC081285	3.5

North America portfolio

AC charger for electric vehicle, type 1

Power supply network: 110 ... 240 V single phase, 50 / 60 Hz

	Rated power (kW)	Max. current (A)	Socket outlet or connector type	Other features	Type	Order code	Weight Pkg (1pce) (kg)
	7.7	32	Cable 25 ft, type 1	RFID, 4G	TAC-W7-P8-R-C-0	ABB6AGC082552	4.5
			Cable 25 ft, type 1	RFID, double ethernet	TAC-W7-P8-R-D-0	ABB6AGC081287	4.5
			Cable 25 ft, type 1	RFID, 4G, double ethernet	TAC-W7-P8-R-CD-0	ABB6AGC081288	4.5
Single phase with display and NIST certification							
	7.7	32	Cable 25 ft, type 1	RFID, double ethernet	TAC-W7-P8-RD-MD-0	ABB6AGC081289	4.5
			Cable 25 ft, type 1	RFID, 4G, double ethernet	TAC-W7-P8-RD-MCD-0	ABB6AGC081290	4.5
	9.6	40	Cable 25 ft, type 1	RFID, 4G, double ethernet	TAC-W9-P8-RD-MCD-0	ABB6AGC082553	4.5
	19	80	Cable 25 ft, type 1	RFID, 4G, double ethernet	TAC-W19-P8-RD-MCD-0	ABB6AGC081291	4.5

Technical specification

Product information	
Charging type	Mode 3 charging, level 2
Input/output power rating and current	IEC ratings: Single phase up to 7.4 kW / 32 A Three phase up to 22 kW / 32 A
Input/output voltage	UL ratings up to 19 kW / 80 A Single phase: 110 ... 240 V Three phase: 380 ... 415 V, 50 / 60 Hz
Network type	TT, TN, IT
Socket outlet or connector type	Type 2 socket with or without shutter Type 1 or type 2 cable. Cable can be wrapped around the charger
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection
Overvoltage category	III
Energy metering	Revenue grade energy meter Class B (+/- 1%), MID certification on display variants only
Mobile communication with nano SIM socket	EU: GSM, 4G, LTE, WCDMA US: 4G, LTE, WCDMA
Available configurable contacts	1 input, 1 output
User Interface	
Connectivity	Wifi, Ethernet (RJ45), Bluetooth, RS485, 4G / 3G
User authentication	ABB RFID card (1 included) or App
User interface	App, ABB web portal
Communication protocols	OCPP 1.6 and RS485/P1 for energy meter connection
Status indication	5 LED's
Configuration	
Software update	OCPP 1.6, ABB web portal or App
Control and configuration	ABB web portal or App
General characteristics	
IP and IK rating	IP54, IK10 (IK8+ for operating temperature from -35 to -30 °C)
NEMA enclosure type	NEMA 4 and 4X
Operating altitude	2000 m
Operating temperature range	-35...+50 °C (derating may apply)
Storage temperature range	-40...+80 °C
Mounting	Wall or floor using a pedestal
Dimensions	H x W x D 320 x 195 x 110 mm
	H x W x D 12.60 x 7.68 x 4.33 inches
Certification and standards	
Safety standards	IEC/EN 61851-1, IEC/EN 62311, IEC/UL 62479, IEC/UL 62955 TuV listed conforming to UL 2594, UL 2231-1, UL 2231-2, UL 1998, CSA C22.2. NO.280
Codes and standards	IEC 61851-21-2, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 CE RED- WLAN / RFID / E-UTRA: EN 300 328 V2.1.1, EN 300 330 V2.1.1, EN 301 908-1 V11.1.2, EN 301 908-13 EN 50470-1, EN 50470-3 FCC Part 15 Class B ENERGY STAR
Certification	CE, CB, MID, UL
Warranty	24 months

Smarter by design

- The App allows streamlined charger configuration
- Ready for integration with advanced smart building energy system
- Simple software updates via the App makes the charger future-ready

With the user in mind

- Enables users to authenticate their charger via the App or RFID card. Configuration is easily done via the App or ABB web portal
- Sends charging status via the App
- Provides information about the status of chargers (availability, number of sessions, energy delivery)

Terra AC wallbox

Technical features

Load management

- Built-in energy meter
- Setup for external energy meter integration for dynamic load management
- Ready for integration with advanced smart building energy system

Built-in safety

- Overcurrent
- Overvoltage and undervoltage
- Ground fault
- Surge protection
- PE (protective earth) continuity monitoring

Connectors

- Type 1 and type 2 cable
- Type 2 socket with or without shutter
- No need of extra hook, attached cable can be wrapped around the charger

Design

- IEC variants:
 - Single phase up to 7.4 kW / 32 A
 - Three phase up to 22 kW / 32 A
- UL variants up to 19 kW / 80 A
- NEMA 4 and 4X enclosure
- All variants: IP54, IK10

Connectivity

- Ethernet RJ45
- Bluetooth
- Wifi
- 4G variants
- RS485/P1 for connection to energy meter
- OCPP 1.6
- Authentication via the App or RFID
- Configuration via the App or ABB web portal





Contact Us

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