



SMART MOBILITY

The home of charging

Terra AC wallbox





- High-value quality
- Futureproof flexibility
- Safety and protection

At ABB, we have 130 years of heritage in accessible technology leadership and a world-leading AC and DC charging portfolio – for safe, smart and sustainable mobility.

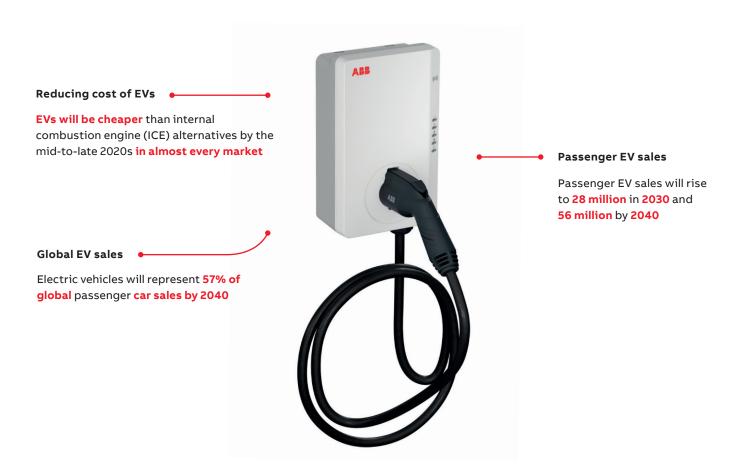
That's why some of the world's biggest brands trust us to provide market-leading e-mobility solutions from highway to home.

ABB: The home of charging

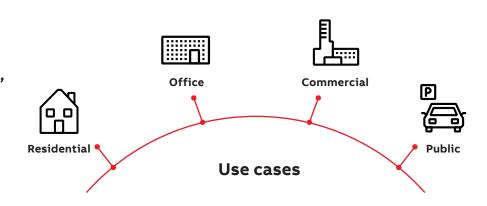
TERRA AC WALLBOX

Terra AC wallbox

To serve a growing market



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

source: https://about.bnef.com/electric-vehicle-outlook/#toc-viewreport

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

including Wifi, Bluetooth and Etherner 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 and 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.

TERRA AC WALLBOX

Smarter charging

IEC 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	Туре	Order code	Weight Pkg (1pce) (kg)
	Single	hase					
	3.7	16	Socket with shutter, type 2	-	Terra AC W4-S-0	ABB6AGC082587	3
			Socket with shutter, type 2	RFID	Terra AC W4-S-R-0	ABB6AGC085384	3
ASS .	7.4	32	Socket, type 2	-	Terra AC W7-T-0	ABB6AGC081278	3
ğ			Socket, type 2	RFID	Terra AC W7-T-R-0	ABB6AGC085382	3
			Socket, type 2	RFID, 4G	Terra AC W7-T-R-C-0	ABB6AGC085383	3
			Cable 5 m, type 2	RFID	Terra AC W7-G5-R-0	ABB6AGC082155	5
ABB			Cable 5 m, type 2	RFID, 4G	Terra AC W7-G5-R-C-0	ABB6AGC085385	6.5
Terra AC W7-T-0	Single p	hase with	n display and MID certification	n			
	7.4	32	Socket, type 2	RFID, 4G	Terra AC W7-T-RD-MC-0	ABB6AGC082174	3
			Cable 5m, type 2	RFID, 4G	Terra AC W7-G5-RD-MC-0	ABB6AGC085386	6.5
	Three p	hase					
	11	16	Cable 5 m, type 2	RFID	Terra AC W11-G5-R-0	ABB6AGC082156	6
	22	32	Socket, type 2	-	Terra AC W22-T-0	ABB6AGC081279	3
// \ N			Socket, type 2	RFID	Terra AC W22-T-R-0	ABB6AGC082152	3
			Socket, type 2	RFID, 4G	Terra AC W22-T-R-C-0	ABB6AGC082153	3
A88			Socket with shutter, type 2	RFID	Terra AC W22-S-R-0	ABB6AGC082589	3
Terra AC W11-G5-R-0			Socket with shutter, type 2	RFID, 4G	Terra AC W22-S-R-C-0	ABB6AGC082154	3
Terra AC WII-G5-R-0			Cable 5 m, type 2	RFID, 4G	Terra AC W22-G5-R-C-0	ABB6AGC082157	6.5
	Three p	hase with	display and MID certification	1			
	22	32	Socket, type 2	RFID	Terra AC W22-T-RD-M-0	ABB6AGC081280	3
erra AC W22-T-RD-M-0			Socket, type 2	RFID, 4G	Terra AC W22-T-RD-MC-0	ABB6AGC081281	3
			Socket with shutter, type 2	RFID, 4G	Terra AC W22-S-RD-MC-0	ABB6AGC081282	3
			Cable 5 m, type 2	RFID, 4G	Terra AC W22-G5-RD-MC-0	ABB6AGC081285	6.5

UL portfolio

AC charger for electric vehicle, type 1

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

								Weight
		Rated power	Max. current		Other			Pkg (1pce)
		(kW)	(A)	connector type	features	Туре	Order code	(kg)
		Single p	hase with	nout display				
ABS	ABB	7.7	32	Cable 25 ft, type 1	RFID, 4G	Terra AC W7-P8-R-C-0	ABB6AGC082552	7
	No.			Cable 25 ft, type 1	RFID, double ethernet	Terra AC W7-P8-R-D-0	ABB6AGC081287	7
I	I			Cable 25 ft, type 1	RFID, 4G, double ethernet	Terra AC W7-P8-R-CD-0	ABB6AGC081288	7
		Single p	hase with	n display				
		7.7	32	Cable 25 ft, type 1	RFID, double ethernet	Terra AC W7-P8-RD-MD-0	ABB6AGC081289	7
Terra AC W7- P8-R-C-0	Terra AC W7- P8-RD-MD-0			Cable 25 ft, type 1	RFID, 4G, double ethernet	Terra AC W7-P8-RD-MCD-0	ABB6AGC081290	7

Terra AC wallbox accessories

	Current	_		Weight Pkg (1pce)
Description	(A)	Туре	Order code	(kg)
Pedestal For floor standing installation				
Metal pedestal for 1 charger, free-standing	-	TAC pedestal single	ABB6AGC085345	9.12
RFID card (MIFARE)				
RFID cards with ABB logo, pack of 5	-	SER-abbRFIDtags	ABB6AGC082175	0.07
RFID cards, blank, pack of 5	-	SER-blankRFIDtags	ABB6AGC082176	0.07
Charge cables Length: 7 m Cables with 2 connectors of same or different types				
Single phase				
Type 2 to type 1	16	TAC-cable T2-T1 7m1P16A	ABB6AGC082538	2.56
Type 2 to type 2	32	TAC-cable T2-T2 7m1P32A	ABB6AGC082535	2.95
Type 2 to type 1	32	TAC-cable T2-T1 7m1P32A	ABB6AGC082539	3.77
Three phase				
Type 2 to type 2	16	TAC-cable T2-T2 7m3P16A	ABB6AGC082536	2.15
Type 2 to type 2	32	TAC-cable T2-T2 7m3P32A	ABB6AGC082537	4.18
Spare parts				
Water and dust proofing set for cable entries including 1 * 32 mm and 2 * 25 mm grommets	_	SER-Grommet	ABB6AGC085387	0.04
Front cover (non-display), 2 screws included	-	SER-Front cover (non-display)		1.50
Maintenance cover, internal (non-display), 6 screws included	-	SER-Maintenance cover (non-display)	ABB6AGC085389	1.50
Spare cables				
Length: 5 m For cable replacement of existing cable version charger				
Type 2, three phase	16	SER-TAC-cable T2 5m3P16A	ABB6AGC082555	1.41
Type 2, single phase	32	SER-TAC-cable T2 5m1P32A	ABB6AGC082554	2.05
Type 2, three phase	32	SER-TAC-cable T2 5m3P32A	ABB6AGC082556	2.95
Type 1, single phase	40	SER-TAC-cable T1 5m1P40A		-
Type 1, single phase	80	SER-TAC-cable T1 5m1P80A		-
Warranty				
Total warranty time of 3 years (standard warranty 2 years + 1 year)		TAC extended warranty 3 yr	ABB6AGC084053	
- I I I I I I I I I I I I I I I I I I I				
Total warranty time of 4 years (standard warranty 2 years + 2 years)		TAC extended warranty 4 yr	ABB6AGC084054	-

TERRA AC WALLBOX

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				
	UL ratings up to 7.7 kW / 32 A				
Input/ouput voltage	Single phase: 110 240 V Three phase: 380 415 V, 50 / 60 Hz				
Network type	TT, TN				
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 residual current 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 socke	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 authentification	ABB RFID card (1 included) or App				
User interface	App, ABB web portal				
Communication protocols	OCPP 1.6 and RS485 for energy meter connection				
Satus 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 3				
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, EN 62311, EN 62479, IEC/EN 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)



ABB

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Additional information

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