



The home of charging

Terra DC wallbox. A compact wallbox ev charger for residential, office, commercial, and public assets applications.



- Intelligent design: compact, convenient, connected
- Future-proof: ROI maximized
- Safety: built-in 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.

TERRA DC WALLBOX

Terra DC wallbox

The smart e-mobility investment

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

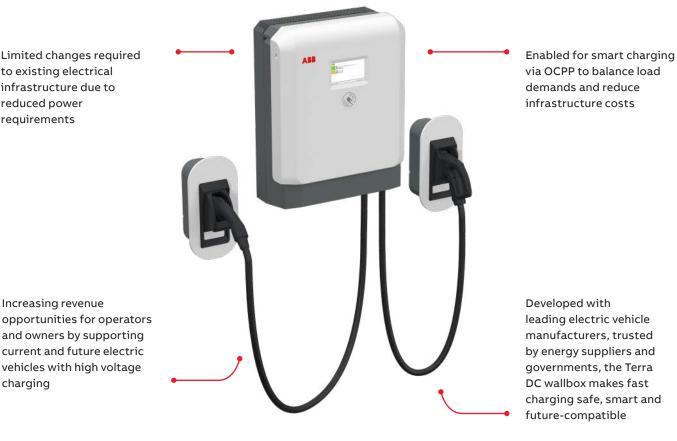
Increasing revenue

charging

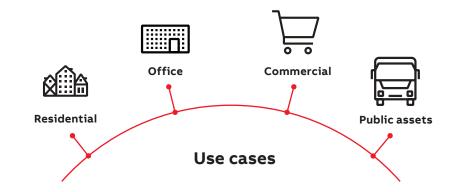
and owners by supporting

current and future electric

vehicles with high voltage



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











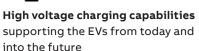
The DC wallbox with **ultra-compact footprint** enables flexibility in installation to serve a variety of site conditions

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











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

TERRA DC WALLBOX

Smarter charging

EU portfolio, three phase

Description

DC charger for electric vehicles, CCS2 and CHAdeMO
Total weight 10 kg backplate + 60 kg main body and cables
Power supply network: 3 phase 400 V AC +/-10 % (50/60 Hz)
Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet
Metal Connector/cable holders for inside use provided standard with the product

Rated continuous power	Rated peak power			Cable length			Weight Pkg (1pce)
(kW)	(kW)	Charging standard	EMC classification	(m / ft)	Туре	Order code	(kg)
22.5	24	CCS2	Class B	3.5 / 12	TWB CE 24 C 3T-7M-0-0	6AGC077815	70
22.5	24	CCS2	Class B	7 / 23	TWB CE 24 C 7T-7M-0-0	6AGC077816	70
22.5	24	CHAdeMo / CCS2	Class B	3.5 / 12	TWB CE 24 CJ 3T-7M-0-0	6AGC077814	70
22 5	24	CHAdeMo / CCS2	Class B	7 / 23	TWB CF 24 C1 7T-7M-0-0	6AGC077817	70



TWB CE 24 C 7-7M-0-0

US portfolio, single phase and three phase

Description

DC charger for electric vehicles, CCS1 and CHAdeMO

Total weight 10 kg backplate + 60 kg main body and cables

Power supply network: 1 phase 200 - 240 V AC +/-10 % (60 Hz), 3 phase 480 V AC +/-10 % (60 Hz)

Rated DC

Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet

Rated DC

 $\label{lem:metal} \textbf{Metal Connector/cable holders for inside use provided standard with the product}$

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TWB UL 24 C 0-7M-A-0

output power 208 V	output power 240 V		Cable length			(1pce)
(kW)	(kW)	Charging standard	(m / ft)	Type	Order code	(kg)
Single phase				,		
19.5	22.5	CCS1	3.5 / 12	TWB UL 24 C 3-7M-A-0	6AGC079380	70
19.5	22.5	CCS1	7 / 23	TWB UL 24 C 7-7M-A-0	6AGC079381	70
19.5	22.5	CHAdeMo / CCS1	3.5 / 23	TWB UL 24 CJ 3-7M-A-0	6AGC079378	70
19.5	22.5	CHAdeMo / CCS1	7 / 23	TWB UL 24 CJ 7-7M-A-0	6AGC079379	70

Weight



						Weight
Rated continuous power	Rated peak power		Cable length			Pkg (1pce)
(kW)	(kW)	Charging standard	(m / ft)	Туре	Order code	(kg)
Three phase						
22.5	24	CHAdeMO/CCS1	3.5 / 12	TWB UL 24 CJ 3T-7M-0-0	6AGC080248	70
22.5	24	CHAdeMO/CCS1	7 / 23	TWB UL 24 CJ 7T-7M-0-0	6AGC081362	70
22.5	24	CCS1	3.5 / 12	TWB UL 24 C 3T-7M-0-0	6AGC081363	70
22.5	24	CCS1	7 / 23	TWB UL 24 C 7T-7M-0-0	6AGC081364	70

Terra DC wallbox accessories

				Weight Pkg
				(1 pce)
	Description	Туре	Order code	(kg)
	Connector holder Plastic /cable holders for outside use: to be ordered separately * Metal cable holders for inside use are provided with the product			
	CCS-1	TWB Ext.Con.Hol. CCS1	6AGC076604	4.66
	CCS-2	TWB Ext.Con.Hol. CCS2	6AGC076603	4.14
	CHAdeMO	TWB Ext.Con.Hol. J	6AGC076601	4.24
	Mobile cart including Terra DC wallbox Perfect fit for workshops at car dealers or at bus and truck depots Wheels are made of stainless steel, providing grounding of the cart to the earth The mobile cart is pre-assembled in the factory and delivered as one with Terra DC Wallbox already installed. Total weight: Mobile cart 70 kg + Terra DC wallbox 70 kg AC cable from the wall plug to the mobile cart is not provided with the product			
	Terra DC wallbox CE 24 kWp, 3 phases, CCS, 3.5 m cable, EMC Class B including mobile cart, CE	TWB CE 24 C 3T-7M-0-0 + mobile cart, CE	6AGC102583	140
-=	Terra DC wallbox CE 24 kWp, 3 phase, CCS, 7 m cable, EMC Class B including mobile cart, CE	TWB CE 24 C 7T-7M-0-0 + mobile cart, CE	6AGC102584	140
Warranty				
Total warranty time of 3 years (standa	ard warranty 2 years + 1 year)	EVC Extended warranty 3 yr	6AGC100306	-
Total warranty time of 4 years (standa	ard warranty 2 years + 2 year)	EVC Extended warranty 4 yr	6AGC100307	-
Total warranty time of 5 years (standa		EVC Extended warranty 5 yr	6AGC100308	

TERRA DC WALLBOX

DC Wallbox 24 kW

DC Wallbox 24 kW

Technical specification

DC Wallbox 24 kW

	IEC version	UL version 1-phase	UL version 3-phase
DC output connection	120 70131011	or version 2 phase	OL VEISION'S Phase
Charging mode	Type 4: CCS 2, CHAdeMO	Type 4: CCS 1, CHAdeMO	Type 4: CCS 1, CHAdeMO
Number of outputs	Standard: single output CCS2	Standard: single output CCS1	Standard: single output CCS1
	Optional: dual output CHAdeMO + CCS 2	Optional: dual output CHAdeMO + CCS 1	Optional: dual output CHAdeMO + CCS 1
Number of simultaneous	Single	Single	Single
charging session	Single	Jingie	Jiligic
Output power rating	0 22.5 kW, 24 kW (peak)	19.5 kW - 208 V	0 22.5 kW, 24 kW (peak)
		22.5 kW - 240 V	
Output current	60 A DC	60 A DC	60 A DC
Output voltage	CCS: 150 920 V DC	CCS: 150 920 V DC	CCS: 150 920 V DC
	CHAdeMO: 150 500 V DC	CHAdeMO: 150 500 V DC	CHAdeMO: 150 500 V DC
Average efficiency at full power	≥ 95 %	≥ 95 %	≥ 95%
AC input connection	22.11.22	0 1 (11 11 12 12 12	
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 %
	50 Hz		· · · · · · · · · · · · · · · · · · ·
Input frequency		50 / 60 Hz	50 / 60 Hz
Input protection Power factor	> 0.96	External circuit breaker (not Included) > 0.96	External circuit breaker (not Included) > 0.96
Harmonic distortion (THDi)	< 8 %	< 8 %	< 8 %
General characteristics	- 0 /0	` U /U	` U /U
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
Emergency stop bacton type	1 dan baccon	1 dall baccon	1 dSil buttoli
Electromagnetic compatiblity	IEC 61000-6-3 Class B suitable for residential	FMC Class A	IEC 61000-6-3 Class B suitable for residentia
Electromagnetic compatiblity	IEC 61000-6-3 Class B, suitable for residential environment	EMC Class A	IEC 61000-6-3 Class B, suitable for residential environment
Electromagnetic compatiblity User Interface		EMC Class A	,
		7 LCD touchscreen display	,
User Interface	environment		environment
User Interface Screen type	7 LCD touchscreen display English as standard Others languages available via software	7 LCD touchscreen display English as standard Others languages available via software	environment 7 LCD touchscreen display English as standard Others languages available via software
User Interface Screen type Languages	7 LCD touchscreen display English as standard Others languages available via software configuration	7 LCD touchscreen display English as standard Others languages available via software configuration	environment 7 LCD touchscreen display English as standard Others languages available via software configuration
User Interface Screen type Languages Standby indicator	7 LCD touchscreen display English as standard Others languages available via software configuration Yes	7 LCD touchscreen display English as standard Others languages available via software configuration Yes	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes
User Interface Screen type Languages	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G
User Interface Screen type Languages Standby indicator Connectivity	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet
User Interface Screen type Languages Standby indicator Connectivity Communication protocol	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port R145 Ethernet OCPP 1.5 / 1.6	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6
User Interface Screen type Languages Standby indicator Connectivity	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC
User Interface Screen type Languages Standby indicator Connectivity Communication protocol	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port R145 Ethernet OCPP 1.5 / 1.6	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6
User Interface Screen type Languages Standby indicator Connectivity Communication protocol	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight,	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight,	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight,
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User Interface Screen type Languages Standby indicator Connectivity Communication protocol	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port R345 Ethernet OCPP 1.5 / 1.6 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	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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
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User Interface Screen type Languages Standby indicator Connectivity Communication protocol User athentication Configuration Software update	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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
User Interface Screen type Languages Standby indicator Connectivity Communication protocol User athentication Configuration Software update Remote control and	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal Authentication	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal Authentication	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal Authentication
User Interface Screen type Languages Standby indicator Connectivity Communication protocol User athentication	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal	7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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 OCPP 1.6, ABB web portal	environment 7 LCD touchscreen display English as standard Others languages available via software configuration Yes Cellular connection 3G/4G 2 port RJ45 Ethernet OCPP 1.5 / 1.6 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
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