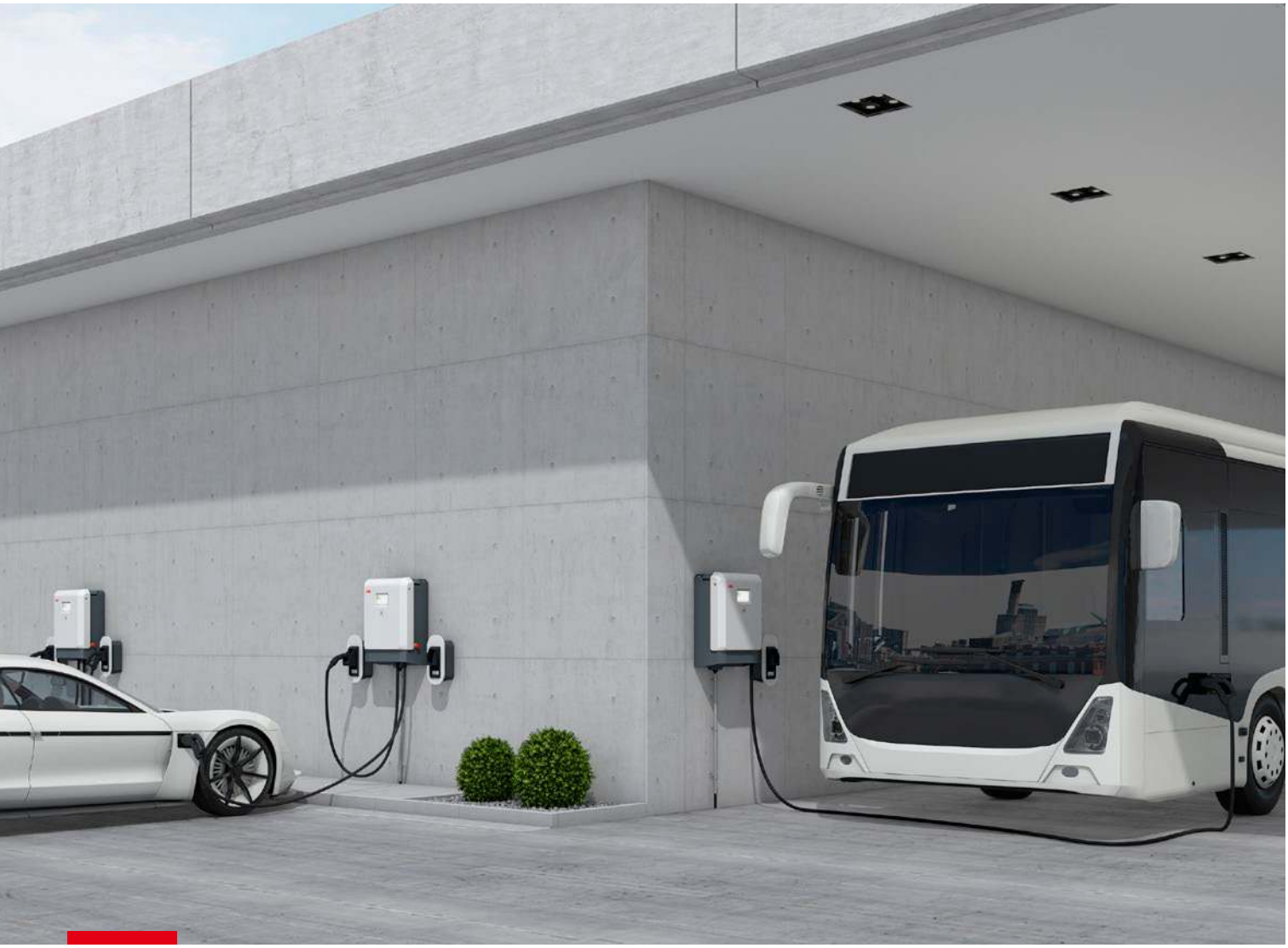

The home of charging

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**

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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
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

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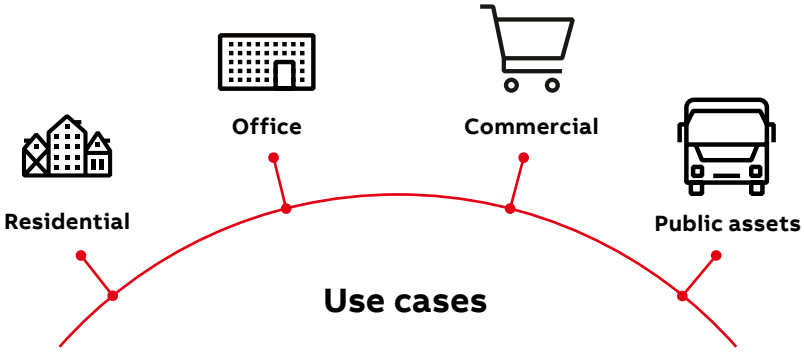
Terra DC wallbox is a future-proof investment supporting current and future EVs with high voltage charging, applicable to a wide variety of use cases, in an ultra-compact footprint, that is safe and reliable, for residential use too.



Residential
Multi-tenant homes, residential communities

Office
Small and large offices, business parks and complexes

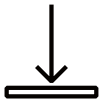
Commercial
Hotels & hospitality sports institutions, shopping centres, commercial fleets, public or private campus, parking structures, car dealerships, race tracks

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

Smarter charging

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EU portfolio, three phase

Description
DC charger for electric vehicles, CCS2 and CHAdeMO
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


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

Rated continuous power (kW)	Rated peak power (kW)	Charging standard	EMC classification	Cable length (m / ft)	Type	Order code	Weight Pkg (1pce) (kg)
22.5	24	CCS2	Class A	3.5 / 12	TWB CE 24 C 0-7M-A-0	6AGC074509	60
22.5	24	CCS2	Class A	7 / 23	TWB CE 24 C 7-7M-A-0	6AGC076048	60
22.5	24	CCS2	Class B	3.5 / 12	TWB CE 24 C 0-7M-0-0	6AGC077815	60
22.5	24	CCS2	Class B	7 / 23	TWB CE 24 C 7-7M-0-0	6AGC077816	60
22.5	24	CHAdeMo / CCS2	Class A	3.5 / 12	TWB CE 24 CJ 0-7M-A-0	6AGC003683	60
22.5	24	CHAdeMo / CCS2	Class A	7 / 23	TWB CE 24 CJ 7-7M-A-0	6AGC076046	60
22.5	24	CHAdeMo / CCS2	Class B	3.5 / 12	TWB CE 24 CJ 0-7M-0-0	6AGC077814	60
22.5	24	CHAdeMo / CCS2	Class B	7 / 23	TWB CE 24 CJ 7-7M-0-0	6AGC077817	60

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US portfolio, single phase and three phase

Description
DC charger for electric vehicles, CCS1 and CHAdeMO
Power supply network: 1 phase 200 - 240 V AC +/-10 % (60 Hz), 3 phase 480 V AC +/-10 % (60 Hz)
Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet
Metal Connector/cable holders for inside use provided standard with the product


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

Rated DC output power 208 V (kW)	Rated DC output power 240 V (kW)	Charging standard	Cable length (m / ft)	Type	Order code	Weight Pkg (1pce) (kg)
Single phase						
19.5	22.5	CCS1	3.5 / 12	TWB UL 24 C 0-7M-A-0	6AGC077773	60
19.5	22.5	CCS1	7 / 23	TWB UL 24 C 7-7M-A-0	6AGC077778	60
19.5	22.5	CHAdeMo / CCS1	3.5 / 23	TWB UL 24 CJ 0-7M-A-0	6AGC003684	60
19.5	22.5	CHAdeMo / CCS1	7 / 23	TWB UL 24 CJ 7-7M-A-0	6AGC076047	60

Rated continuous power (kW)	Rated peak power (kW)	Charging standard	Cable length (m / ft)	Type	Order code	Weight Pkg (1pce) (kg)
Three phase						
22.5	24	CCS1	3.5 / 12	TWB UL 3PH 24 CJ 0-7M-0-0	6AGC080248	60
22.5	24	CCS1	7 / 23	TWB UL 3PH 24 CJ 7-7M-0-0	6AGC081362	60
22.5	24	CHAdeMo / CCS1	3.5 / 12	TWB UL 3PH 24 C 0-7M-0-0	6AGC081363	60
22.5	24	CHAdeMo / CCS1	7 / 23	TWB UL 3PH 24 C 7-7M-0-0	6AGC081364	60

Terra DC wallbox accessories

	Description	Type	Order code	Weight Pkg (1 pce) (kg)
	**Pedestal** For floor standing installation - Metallic structure (base material aluminium) - Internal conduits available for cabling - Supports up to 2 gun holders on each side - Should be installed with a foundation (not provided) - Dimensions: 1735.50 x 550 x 207.50 mm (H x W x D))		ABB6AGC082120	30
	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	ABB6AGC076604	4.66
	CCS-2	TWB Ext.Con.Hol. CCS2	ABB6AGC076603	4.14
	CHAdeMO	TWB Ext.Con.Hol. J	ABB6AGC076601	4.24

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	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 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	≥ 92 %	≥ 92 %	≥ 92 %
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, 40 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 H x W x D	770 x 584 x 294 mm 30.31 x 22.99 x 11.57 inches	770 x 584 x 294 mm 30.31 x 22.99 x 11.57 inches	770 x 584 x 294 mm 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 compatiblity	IEC 61000-6-3 Class B, suitable for residential environment	IEC 61000-6-3 Class B, suitable for residential environment	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 / 2.0	OCPP 1.5 / 1.6 / 2.0	OCPP 1.5 / 1.6 / 2.0
User athentication	RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)	RFID (ISO 14443 A + B to part 4 and ISO/IEC 15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)	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	On-screen PIN code authentication	On-screen PIN code authentication
	Plug & charge (ISO 15118)	Plug & charge (ISO 15118)	Plug & charge (ISO 15118)
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
Certification	CE, EMC Class B	UL, FCC, EMC Class B	UL, FCC, EMC Class B
Warranty	24 months Warranty extention possible	24 months Warranty extention possible	24 months Warranty extention possible

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