





# The home of charging

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

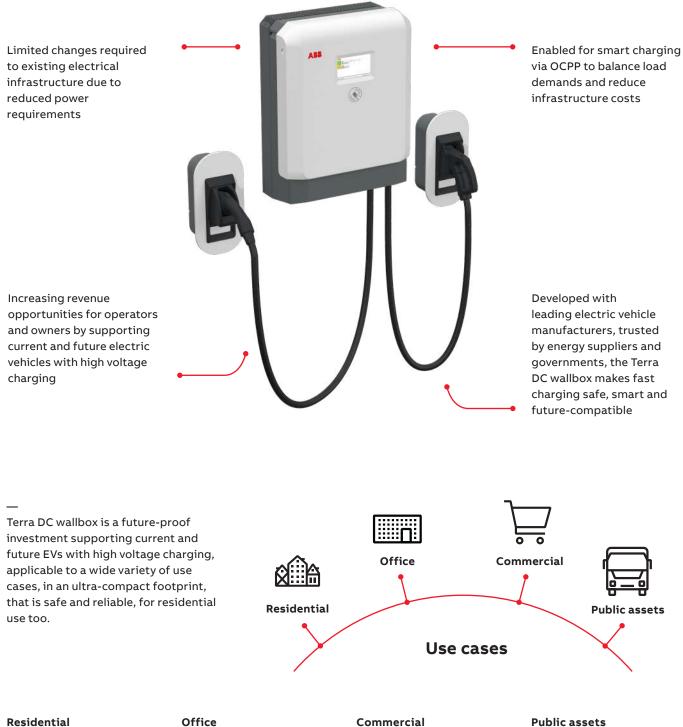


- Intelligent design: compact, convenient, connected
- Future-proof: ROI maximized
- Safety: built-in protection

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** The smart e-mobility investment



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

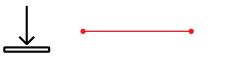
### Intelligent design: compact, convenient, connected



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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

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

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

#### 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) Connectivity: Cellular connection, 3G / 4G, 2 port RJ45, Ethernet Metal Connector/cable holders for inside use provided standard with the product

Rated DC output power 208 V	Rated DC output power 240 V		Cable length			Weight Pkg (1pce)
(kW)	(kW)	Charging standard	(m / ft)	Туре	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

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



Rated continuous power (kW)	Rated peak power (kW)	Charging standard	Cable length (m / ft)	Туре	Order code	Weight Pkg (1pce) (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

Total warranty time of 5 years (standard warranty 2 years + 3 year)

### **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 <b>not</b> 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	rd warranty 2 years + 1 year)	EVC Extended warranty 3 yr	6AGC100306	-
Fotal warranty time of 4 years (standa	rd warranty 2 years + 2 year)	EVC Extended warranty 4 yr	6AGC100307	-

-

EVC Extended warranty 5 yr

6AGC100308

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# **Technical specification**

	DC Wallbox 24 kW	DC Wallbox 24 kW	DC Wallbox 24 kW
	IEC version	UL version 1-phase	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		≥ 95 %	≥ 95%
AC input connection	2 55 70	2.55 %	2.55 %
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 %
	< 0 70	< 6 70	< 6 70
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 3 outdoor	NEMA 3 outdoor
NEMA enclosure type	2500 m (8200 ft)		
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 Electromagnetic compatiblity	Push button IEC 61000-6-3 Class B, suitable for residential environment	Push button EMC Class A	Push button IEC 61000-6-3 Class B, suitable for residentia environment
User Interface	environment		environment
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	Cellular connection 3G/4G	Cellular connection 3G/4G
Communication protocol	2 port RJ45 Ethernet OCPP 1.5 / 1.6	2 port RJ45 Ethernet OCPP 1.5 / 1.6	2 port RJ45 Ethernet OCPP 1.5 / 1.6
User athentication	RFID (ISO 14443 A + B to part 4 and ISO/IEC	RFID (ISO 14443 A + B to part 4 and ISO/IEC	RFID (ISO 14443 A + B to part 4 and ISO/IEC
oser athentication	15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)	15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)	15693 Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more)
	On-screen PIN code authentication	On-screen PIN code authentication	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 support of ISO 15118 Plug&Charge is according to publicly available and commonly recognized implementation whitepaper Please contact your ABB local organization	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	Authentication	Authentication	Authentication
configuration via ABB Ability	Payment	Payment	Payment
connected services	Monitoring	Monitoring	Monitoring
	Remote diagnostic	Remote diagnostic	Remote diagnostic
Remote control and configuration via local service tool	Repair Please contact your ABB local organization	Repair Please contact your ABB local organization	Repair Please contact your ABB local organization
Certification and standards			
Codes and standards	EN 61851-1	EN 61851- 1	EN 61851- 1
coues and standal us	EN 61851-2	EN 61851-2	EN 61851-1 EN 61851-2
	UL 2202	UL 2202	UL 2202
Certification Warranty	CE, EMC Class B 24 months	UL, FCC, EMC Class A 24 months	UL, FCC, EMC Class B 24 months



#### For more information please contact:

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