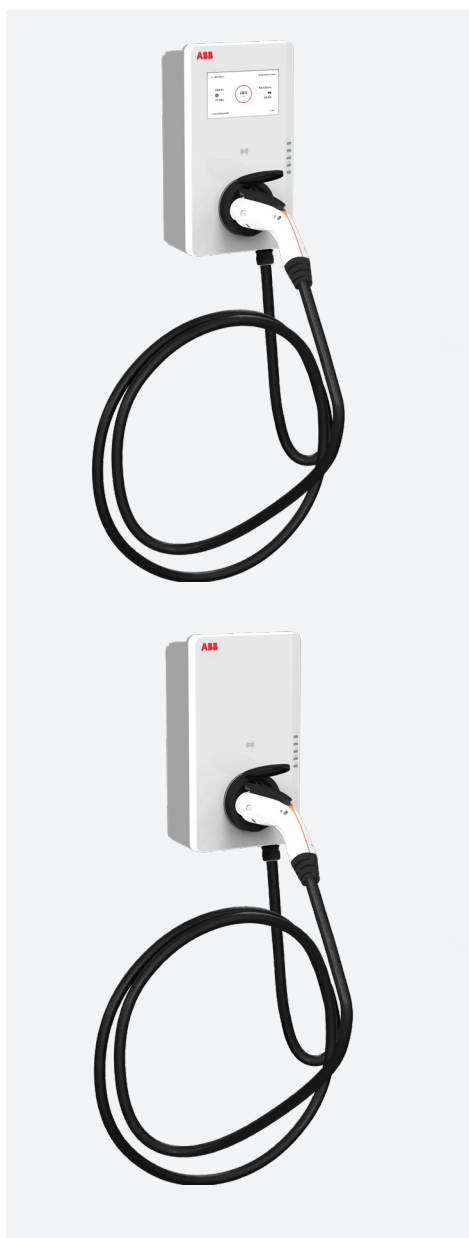# Terra AC Wallbox UL
32/40/80 A Level 2 EV charger

The Terra AC Wallbox is the smartest, quickest and safest Level 2 destination charging solution for residential, fleets, public operators, commercial facilities, workplaces, and multifamily residences. The Terra AC Wallbox delivers future-proof flexibility as well as advanced safety and protection. With connectivity and digital functionality, the Terra AC Wallbox is built to deliver optimized charging today and well into the future.

Flexible, high quality design

- 32/40/80 A model for residential, commercial and fleet demands
- Universal PHEV and BEV charging
- UL safety certified with the highest protection
- Built in revenue grade meter supporting load management
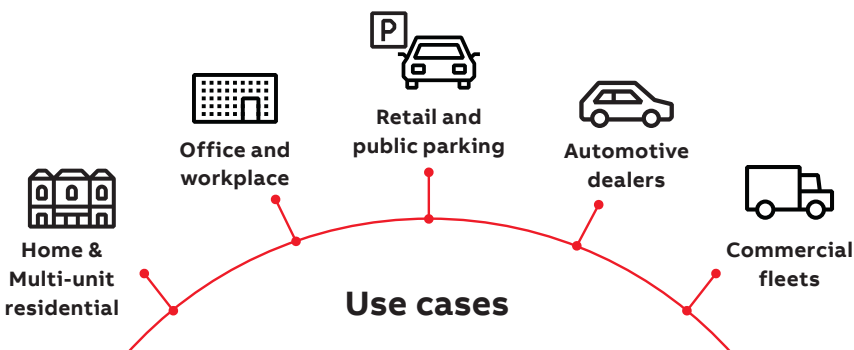
Easy siting and installation

- Designed for installation in less than 30 min
- Fastest remote commissioning for multi-charger sites
- Tailored pedestal option available
- Rugged NEMA Type 4 enclosure for any indoor or outdoor location

Smart business integration

- OCPP integration with any charging network
- Multiple connectivity and authentication options
- Intuitive app for managing charging sessions and usage
- Dedicated web portal for charger and data management, ideal for large installations

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Terra AC Wallbox chargers can be configured with or without a screen display, depending on the needs of the site and its users.

Home & Multi-unit residential

Office and workplace

Retail and public parking

Automotive dealers

Commercial fleets

Use cases

Product information

Charging type	Level 2
AC input / output power and current	7.4 kW / 32 A, 9.6 kW / 40 A, 19.2 kW / 80 A
Recommended breaker	40 A (for 32 A unit); 50 A (for 40 A unit); 100 A (for 80 A unit)
Input / output voltage	110/208/240 VAC, 50/60 Hz
Network type	Single phase / split phase (TT, TN)
Cable type / Cable storage	SAE J1772, type 1 cable, 7.6 m (25 ft) Cable is wrapped around charger and front holster inlet
Protection	Overcurrent, overvoltage, undervoltage, CCID20, integrated surge protection
Ground fault protection	Integrated 20 mA AC
Overvoltage category	III
Energy metering	Revenue grade energy meter Class B (±2%)
Mobile communication with nano SIM socket	4G, LTE, WCDMA
Available configurable contacts	1 input, 1 output

User interface

Connectivity	Ethernet (RJ45) with daisy-chain Ethernet option, Wifi, Bluetooth, Modbus RTU RS485, Modbus TCP/IP, 4G
User authentication	ABB RFID card (1 card included) or ChargerSync™ app or portal
User interface / Installer interface	ChargerSync™ app or portal / TerraConfig app and portal for setup
Communication protocols	OCPP 1.6J, Modbus RTU RS485 (energy meter or local controller connection), Modbus TCP/IP (local controller connection)
Status indication	5 LED's (power / connectivity / authorization / charging / error)

Configuration

Software update	OCPP 1.6J, ChargerSync™ portal or app, Terraconfig app
Control and configuration	OCPP 1.6J, ChargerSync™ portal or app, Terraconfig app, display wakeup functionality via touch, current limit by rotary switch

General characteristics

Enclosure rating	Indoor and Outdoor, NEMA 4; IP65, IK10
Operating altitude (max)	4000 m (13,123 ft)
Operating temperature range	-30 °C to +55 °C (-22 °F to +131 °F); derating may apply
Storage temperature range	-40 °C to +85 °C (-40 °F to +185 °F)
Mounting	Wall or floor using a pedestal
Dimensions H × W × D	400 × 230 × 125 mm (15.75 × 9.06 × 4.92 inches)
Weight 40 / 80A	10.8 kg / 11.8 kg (23.80 lb / 26.01 lb)

Certification and standards

Safety standards	UL 2594, UL 2231-1, UL 2231-2, UL 1998, CSA C22.2. NO.280, NMX-J-667-ANCE
Codes and standards	FCC Part 15 Class B, ENERGY STAR (Except the 32A charger)
Certification	SGS
Warranty	24 months

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Terra AC Wallbox chargers are easy to install at any site, with an optional pedestal solution that enables flexible siting.

Model configurations

Part Number	Description
ABB-SR-CR-95-32A	32A Pedestal with built-in cable retractor, 95", for single unit with 25' cable CMS
ABB-DR-CR-95-32A	32A Pedestal with built-in cable retractor, 95", for dual configuration with 25' cable CMS
ABB-SR-CR-95-80A	40/80A Pedestal with built-in cable retractor, 95", for single unit with 25' cable CMS
ABB-DR-CR-95-80A	40/80A Pedestal with built-in cable retractor, 95", for dual configuration with 25' cable CMS

Model configurations

Part Number	Rated power (kW)	Max current (A)	RFID	Daisy-chain ethernet	4G	Screen display
6AGC081287	7.4	32	√	√		
6AGC081288			√	√	√	
6AGC081290			√	√	√	√
6AGC105905	9.6	40	√	√		
6AGC082553			√	√	√	√
6AGC105904	19.2	80	√	√		
6AGC081291			√	√	√	√

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