

Overview

The ABB Terra DC Wallbox is a premium charging solution designed to meet a wide range of electric vehicle fleet needs – in a small footprint. This charger is available as a Single Phase, 22.5kW or Three Phase, 24kW DC Fast charger to adapt to site electrical limitations. The Terra DC Wallbox is Energy Star certified and available as Buy America compliant, accommodating many funding opportunity requirements. With a compact footprint and options for wall mounting or use on a pedestal, the Terra DC Wallbox provides installation flexibility to suit various layouts.

Primary Use Cases

- Auto dealerships, for charging available inventory and new vehicles for delivery
- School electric bus fleets, particularly for moderate routes or faster midday recharge than with AC chargers
- Various fleets with constrained layouts

Key Benefits

- Energy Star certified
- Available as Buy America compliant
- Versatile with multiple installation options
- Offers fast charging in a compact, space-saving footprint
- Access control via PIN or RFID card (cards by request)
- Credit card reader payment (by request)



ABB Terra DC Wallbox Dual Cable CCS1 / CHAdeMO



Managed by



Charge Management Software (CMS)

- User-friendly, integrates with existing systems
- Maximize fleet productivity
- Minimize charging-related energy costs
- Mitigate demand charges with load management



Warranty & Maintenance Options

... backed by an in-house team of service experts

- Standard 3-year (36 month) Warranty included with every InCharge charger (covers parts; restrictions may apply)
- Customizable options to cover parts, labor, uptime SLAs, & more

Configuration	Value
Voltage	1 Phase: 208-240 Vac +/- 10% 3 Phase: 480 Vac +/- 10%
AC Input Power Connection	1 Phase: L1, L2, GND 3 Phase: L1, L2, L3, N, GND
Frequency	60Hz
Recommended Breaker	1 Phase: 125A 3 Phase: 50A
Max Current Draw	1 Phase: 100A 3 Phase: 32A / 35A
Power Factor	>0.96
THD (Total Harmonic Distortion)	IEEE 519 Compliant; 5%
Output Parameters	Value
Voltage	CCS1: 150-920Vdc CHAdeMO: 150-500Vdc
Current - Max	60A
Power - Max	1 Phase @ 208V: 19.5kW 1 Phase @ 240V: 22.5kW 3 Phase: 22.5kW rated continuous power, 24kW (peak)
System Efficiency - Max	≥94%
Controls & Interface	Value
HMI	7in full color touchscreen display
Communication	OCPP 1.6
Network Connection	GSM / 4G modem, 10/100 Base-T Ethernet
RFID	ISO / IEC 14443A/B, ISO / IEC 15693, NFC reader mode, Mifare, Calypso
Language	English (others available upon request)
Environment	Value
Temperature - Operating	-31°F to 113°F / -35°C to 45°C
Temperature - Storage	-14°F to 158°F / -10°C to 70°C
Humidity	5% - 95%, non-condensing
Altitude - Operating	8200ft (2500m)
Protection - Intrusion	IP54, NEMA 3S
Cables & Connectors	Value
Connector Types	CCS1, CHAdeMO
Connector Technology	Segmented
Cable Length	23ft (7m)
General	Value
Materials & Finish	Enclosure - robust all-weather for indoor or outdoor use
Supported Protocols	DIN70212
Dimensions	(D x W x H) 11.8in x 23in x 30.3in / 300mm x 584mm x 770mm
Weight	Main body & cables: 132lbs (60kg), Backplate: 22lbs (10kg)
Certifications	UL 2202
UL/TUV	1 Phase Certification Number: CU 72202051 01 3 Phase Certification Number: CU 72193958 01

ABB Terra DC Wallbox

22.5kW or 24kW DC Fast charger

Product Code	Product Configuration
A22-C1L-R	Single Phase, 22.5kW max. Terra DC Wallbox CCS1 Long (65A, 23ft)
A22-C1L-A	Single Phase, 22.5kW max. Terra DC Wallbox CCS1 Long (65A, 23ft), EV Connect Mobile Payment App
A22-C1L-C	Single Phase, 22.5kW max. Terra DC Wallbox CCS1 Long (65A, 23ft), Credit Card Reader
A22-C1LCHL-R	Single Phase, 22.5kW max. Terra DC Wallbox CCS1 Long (65A, 23ft) / CHAdeMO Long (65A, 23ft)
A24-C1L-R	Three Phase, 24kW max. Terra DC Wallbox CCS1 Long (65A, 23ft)
A24-C1L-C	Three Phase, 24kW max. Terra DC Wallbox CCS1 Long (65A, 23ft), Credit Card Reader
A24-C1LNSL-R	Three Phase, 24kW max. Terra DC Wallbox CCS1 Long (65A, 23ft) / NACS (65A 23ft)
A24-C1LCHL-R	Three Phase, 24kW max. Terra DC Wallbox CCS1 Long (65A, 23ft) / CHAdeMO Long (65A, 23ft)
A22-C1L-R-BA	Single Phase, 22.5kW max. Terra DC Wallbox CCS1 Long (65A, 23ft), Buy America Compliant

*Please note, the variants listed are representative and may not be a comprehensive list of available options. Consult with your InCharge Energy sales representative.