



# Electrify the road

Terra DC fast chargers. The most successful EV fast chargers in the market, ranging from 20 to 180 kW and ideal for urban applications, retail and refueling stations.



- Compact footprint
- Maximized revenue generation
- Future ready

—  
**The Terra DC fast chargers product line consists of a unique offering, with a wide range of ratings.**

**They are designed for convenient charging of all electric vehicles, including future models with high voltage battery systems. The compact size makes it perfect for urban use, with flexibility to upgrade charging power up to 180kW and ability to charge up to 3 vehicles at the same time.**

# Terra DC Fast Charger

## At a glance

**CONNECTED** 24/7/365 remote monitoring and diagnostic, receiving updates over-the-air to support every new EV on the road

**LCD** touchscreen with high brightness and graphical visualization of the charging process

**SAFETY** emergency stop push button to immediately stop charging operation

**GREATER** utilization with up to 3 simultaneous charging of electric vehicles, with CCS, CHAdeMO, and AC plug combinations

**UPGRADABLE** power modules to support increasing demand for EVs and increasing battery ranges

**ROBUST** all-weather powder-coated stainless steel enclosure

**CONVENIENCE** and hassle-free reach for drivers with retractable cable management option

**EASY** installation thanks to the improved design allows to connect and start-up the charger in less than 2 hours

**AUTOMATIC** authentication capability via CCS connector in the vehicle thanks to easy OCPP integration and Autocharge functionality

### MAX CHARGING POWER

Terra 24: 20 kW  
Terra 54: 50 kW  
Terra 94: 90 kW  
Terra 124: 120 kW (and 2 x 60 kW)  
Terra 184: 180 kW (and 2 x 90 kW)

### MAX CHARGING VOLTAGE

CCS 920 V DC  
CHAdeMO 500 V DC

### DIMENSIONS

Height 1900 mm / 74.8 in  
Width 565.5 mm / 22.3 in  
Depth 880 mm / 34.6 in  
Weight 395 kg / 871 lbs  
(Terra 184)

# Why Terra DC fast chargers?

Advanced, flexible, compact and smart



## Power sharing for high utilization

- Terra 124 and Terra 184 can charge two vehicles simultaneously
- High utilization of charging assets benefit both public and fleet business models
- Supports all open charging standards in flexible configurations
- Safety certified to the highest standards



## Future-proof, flexible high-voltage technology

- Flexible, redundant power architecture supports high uptime
- High-voltage charging range up to 920 V
- Fully compatible with current and future EVs
- Option to upgrade power over time, from 90 kW up to 180 kW, to follow EV market growth



## Reliable, compact and flexible design

- Based on the Terra platform, the most widely deployed DCFC family in the world
- Space-saving, all-in-one footprint with very easy installation and servicing
- Robust construction for all operational environments
- Cable management options enhance longevity



## Always connected, always smart

- 24/7 connectivity, 99.5% ABB network uptime
- Remote services with remote firmware updates and upgrades
- OCPP integration-ready as well as ABB Web Tools functionality
- Autocharge and ISO 15118-ready for plug and charge operation

# Fast charging beyond 50 kW

## Power sharing delivers high utilization

### 90kW Charging Points

Terra chargers can provide a quick refill adding 100 miles of range in as little as 15 minutes (Terra 94) or 30 minutes (Terra 54).\*



one EV  
up to

**90 kW**



### Retail/Shopping Sites

The Terra 124 charger can provide a full battery charge to two vehicles simultaneously while drivers are shopping, dining or at the movies.



one EV  
up to

**120 kW**



two EVs  
each up to

**60 kW**



one EV  
up to

**180 kW**

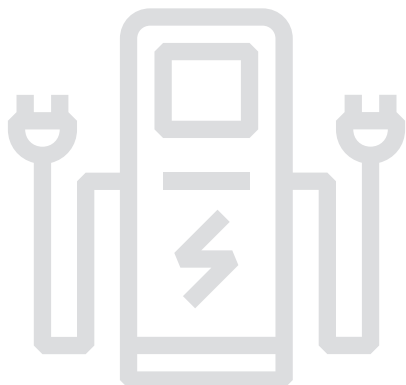


two EVs  
each up to

**90 kW**



\* actual charging speed depends on the electric vehicle model(s) and charging conditions



Simultaneous charging with high power fast chargers can deliver maximum charging asset utilization while serving an ever-growing population of large battery electric vehicles.

# High voltage charging explained

## A future-proof strategy

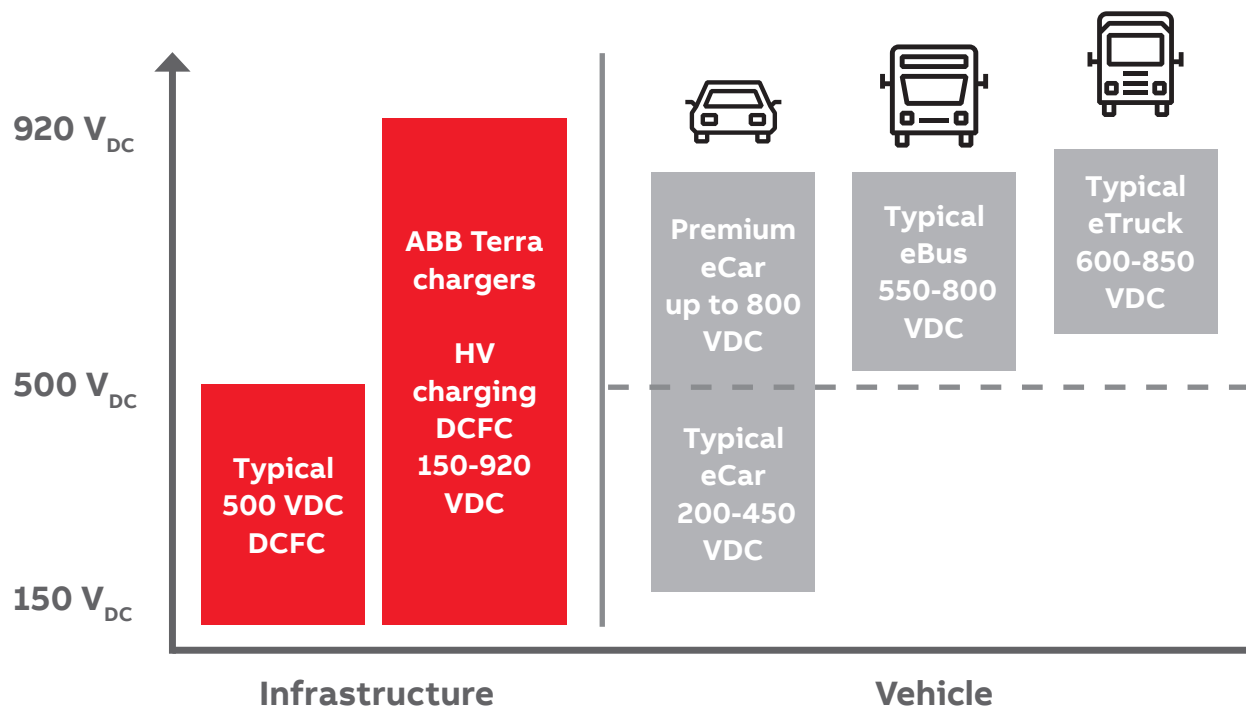
### High voltage charging capabilities

As electric vehicles and their use cases diversify, high voltage DC charging has become more important to increase charging power while ensuring as much efficiency, safety and usability in DC charging systems.

Traditional passenger vehicle battery packs are usually designed for 400 VDC charging, so many standard charging systems do not exceed 500 VDC capability. However, some newer vehicles may have battery packs that exceed 400 VDC, often in the 600 to 800 VDC range.

Some EV battery packs, such as with vehicles designed for fleet usage, may only charge at high voltage ratings, demanding charging infrastructure that can deliver power tailored to HV battery packs.

ABB's Terra 94, Terra 124 and Terra 184 chargers are designed to meet EV battery voltage capabilities up to 920V to deliver charging services across a wider range of today's and tomorrow's EVs.



A high range of DC voltage capability is demanded to deliver efficient charging service to every EV and use case.

# Terra charging times

All-in-one charging for every EV

|           |                                           | Charging time (minutes)         |                   |                     |      |                     |      |
|-----------|-------------------------------------------|---------------------------------|-------------------|---------------------|------|---------------------|------|
|           |                                           | 50 kW<br>Terra 54<br>Terra 54HV | 90 kW<br>Terra 94 | 120 kW<br>Terra 124 |      | 180 kW<br>Terra 184 |      |
|           |                                           |                                 |                   | 2 EVs               | 1 EV | 2 EVs               | 1 EV |
| Car       | 60 kWh BEV<br>400 VDC                     | 50                              | 25                | 40                  | 20   | 25                  | 13   |
|           | 90 kWh BEV<br>400 VDC                     | 70                              | 40                | 60                  | 30   | 40                  | 20   |
|           | 100 kWh BEV<br>800 VDC                    | 80                              | 45                | 65                  | 33   | 45                  | 22   |
| Bus/Truck | 120 kWh BEV<br>School Bus<br>400 VDC      | 95                              | 53                | 80                  | 40   | 55                  | 26   |
|           | 150 kWh BEV<br>Delivery Van<br>800 VDC    | 120                             | 65                | 100                 | 50   | 65                  | 33   |
|           | 200 kWh BEV<br>Work Truck<br>800 VDC      | 160                             | 88                | 133                 | 66   | 88                  | 44   |
|           | 300 kWh BEV<br>60' Transit Bus<br>800 VDC | 240                             | 130               | 200                 | 100  | 130                 | 66   |

Charge times shown based on average vehicle battery management system (BMS) requesting charging power from 20% to 80% under mild environmental conditions. Data assumes vehicles capable of charging at cited power levels.

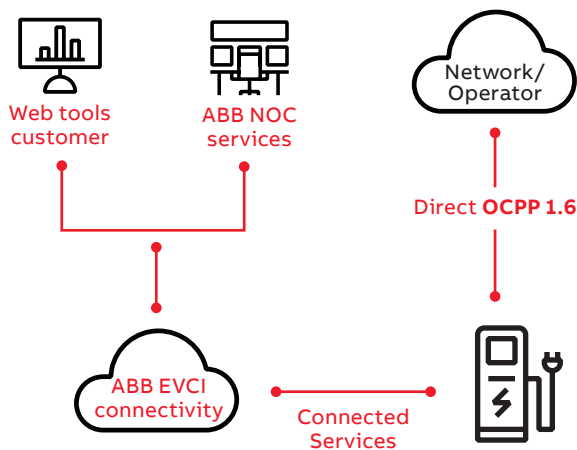
# Flexible OCPP enablement

## Back-office integrations backed by ABB connectivity

### Network communications

ABB has integrated with nearly every major charging network around the world for OCPP support across public and fleet charging operations. ABB chargers can be operated using a direct OCPP connection while linking to ABB's advanced diagnostics and firmware update services for additional intelligence, technical support as well as reduced maintenance.

Leading the industry in implementing authentication technologies, ABB enables Autocharge coupled with an OCPP server. This functionality offers access control at the vehicle level, ideal for fleet asset telematics. ABB's software engineers work with the latest standardized protocols in the EV charging industry including roaming platforms, energy management software and next generation authentication solutions.



**Better and faster support:** Chargers connected to ABB's network operations center can achieve the fastest remote support from ABB network engineers. This leads to higher uptime of a charger network, minimizes the number of unplanned on-site visits, and significantly reduces overall operational costs.

**Scalability and security:** IT resources can scale in the ABB Ability cloud while connectivity monitoring is supported by ABB around the clock. ABB leverages Microsoft Azure based security with fewer backend connections to monitor.



### OCPP Integrations

The Open Charge Point Protocol (OCPP) includes a broad set of messages with a wide range of functionality for enterprise telematics and usage data. The transaction-based set-up of the messages makes it easy to connect to a back-end system to process charging sessions, define usage models and handle data. Other capabilities include integration with apps and energy management, such as with OCPP Smart Charging Profiles.



### Plug and charge

Eliminating manual authentication methods for drivers while delivering granular data sets to network operators and fleets has never been easier with 'plug and play' charging solutions.

ABB supports Autocharge, in conjunction with an OCPP network integration, to meet vehicle-based authentication demands seamlessly with any CCS vehicle.

Additionally, ABB has proactively enabled ISO 15118 (Plug & Charge) for its charging systems to deliver more advanced plug and play charging experience for the next generation of electric vehicles.

# ABB EV Infrastructure services

## For highest utilization and lowest downtime

### Operational excellence

Charging infrastructure must be optimized for the highest utilization and lowest downtime. ABB's remote and real-time services meets that demand, incorporating a decade of experience with thousands of intelligent fast chargers deployed across the globe.

ABB's Terra family of all-in-one chargers are the easiest chargers in the market to service, with high uptime due to its innovative modularity, round the clock connectivity and experience-led design.



### Remote services

- 24/7 connectivity
- Remote services
- Remote diagnostics
- Firmware upgrades
- Driver care web tools
- Charger Care web tools



### Parts and warranty services

- Full service warranty process
- Extended warranties
- Preventive service and maintenance
- Network spare parts programs
- Fleet spare parts programs



### Custom software services

- OCPP integration
- Autocharge integration testing
- Interoperability testing and validation
- Customized enterprise software support



### Training

- Standardized online training
- Customized service training
- Third-party service training programs

# Technical specification

|                                   | Terra 184                                                                                                                 | Terra 124                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Product information               |                                                                                                                           |                                                                                         |
| Charging type                     | DC fast charging and AC type-2 charging                                                                                   | DC fast charging and AC type-2 charging                                                 |
| Outlet options                    | C: CCS cable, J: CHAdeMO cable,<br>T: AC Type-2 socket                                                                    | C: CCS cable, J: CHAdeMO cable,<br>T: AC Type-2 socket                                  |
| Input AC power rating             | 280 A, 192 kVA                                                                                                            | 187 A, 128 kVA                                                                          |
| Input voltage range               | 400 VAC +/- 10% (50 Hz or 60 Hz) - CE Version<br>480 VAC or 270 VAC +/- 10% (50 Hz or 60 Hz) - UL Version                 |                                                                                         |
| DC output power rating (max)      | 180 kW                                                                                                                    | 120 kW                                                                                  |
| AC output power rating (optional) | 22 kW                                                                                                                     | 22 kW                                                                                   |
| DC output voltage                 | 150-920 Vdc                                                                                                               | 150-920 Vdc                                                                             |
| Number of EV served               | Up to 3 (CCT, CJT models)<br>Up to 2 (CC, CJ, JJ models)<br>Up to 1 (C models)                                            | Up to 3 (CCT, CJT models)<br>Up to 2 (CC, CJ, JJ models)<br>Up to 1 (C models)          |
| Cable length                      | 3.9 m<br>Optional: 6.0 m / 8.0 m                                                                                          | 3.9 m<br>Optional: 6.0 m / 8.0 m                                                        |
| CCS cables maximum current        | Standard: 200 A<br>High current: 400 A                                                                                    | Standard: 200 A<br>High current: 400 A                                                  |
| CHAdeMO cables maximum current    | 200 A, 125 A (Optional)                                                                                                   | 200 A                                                                                   |
| Network type                      | TN-S, TN-C, TN-C-S, TT (Requires external RCD)                                                                            | TN-S, TN-C, TN-C-S, TT (Requires external RCD)                                          |
| Connector types                   | 3-phase, neutral, protective earth (CE models)<br>3-phase, protective earth (UL models)                                   | 3-phase, neutral, protective earth (CE models)<br>3-phase, protective earth (UL models) |
| Protection                        | Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection         |                                                                                         |
| Overvoltage category              | Type II                                                                                                                   | Type II                                                                                 |
| Power factor (full load)          | > 0.96                                                                                                                    | > 0.96                                                                                  |
| THDi                              | < 4.5%                                                                                                                    | < 4.5%                                                                                  |
| Efficiency                        | > 95% (peak)                                                                                                              | > 95% (peak)                                                                            |
| Standby power                     | 80 W<br>980 W (with heater active)                                                                                        | 80 W<br>980 W (with heater active)                                                      |
| Short circuit current             | 10 kA (CE models)<br>65 kA (UL models)                                                                                    | 10 kA (CE models)<br>65 kA (UL models)                                                  |
| Pre- charge current               | < 1 A                                                                                                                     | < 1 A                                                                                   |
| Inrush current                    | < 100 A                                                                                                                   | < 100 A                                                                                 |
| Leakage current                   | 0.8 mA                                                                                                                    | 0.8 mA                                                                                  |
| Energy metering                   | Optional: MID metering for AC and DC outlets<br>Optional: Eichrecht/PTB compliant metering solution for AC and DC outlets |                                                                                         |
| Cellular communication            | GSM / 4G / LTE                                                                                                            | GSM / 4G / LTE                                                                          |
| User interface                    |                                                                                                                           |                                                                                         |
| Connectivity                      | Internet access via 4G / 3G / Ethernet (RJ45)                                                                             | Internet access via 4G / 3G / Ethernet (RJ45)                                           |
| User authentication               | App, ISO 15118 Plug'n'Charge, RFID, PIN code                                                                              | App, ISO 15118 Plug'n'Charge, RFID, PIN code                                            |
| User interface                    | 7" LCD high-contrast touchscreen                                                                                          | 7" LCD high-contrast touchscreen                                                        |
| Communication protocols           | OCPP 1.5 / 1.6 and OPC-UA                                                                                                 | OCPP 1.5 / 1.6 and OPC-UA                                                               |
| RFID Reader                       | ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more                     |                                                                                         |
| Emergency button                  | Yes. The button can be removed with a retrofit kit.                                                                       |                                                                                         |
| Configuration                     |                                                                                                                           |                                                                                         |
| Software update                   | over-the-air updates via ABB web portal                                                                                   |                                                                                         |
| Control and configuration         | ABB web portal, on-board Service Portal, OCPP 1.6, OPC-UA                                                                 |                                                                                         |

| Terra 94                                                                                                                  | Terra 54                                                                                | Terra 24                                                                                |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| DC fast charging and AC type-2 charging                                                                                   | DC fast charging and AC type-2 charging                                                 | DC fast charging and AC type-2 charging                                                 |
| C: CCS cable, J: CHAdeMO cable,<br>T: AC Type-2 socket                                                                    | C: CCS cable, J: CHAdeMO cable,<br>G: AC Type-2 cable, T: AC Type-2 socket              | C: CCS cable, J: CHAdeMO cable,<br>G: AC Type-2 cable, T: AC Type-2 socket              |
| 140 A, 96 kVA                                                                                                             | C, CJ: 88 A, 55 kVA<br>CT, CJT, CG, CJG: 112A, 77 kVA<br>CG, CJG: 143 A, 98 kVA         | CJ: 32 A, 23 kVA<br>CT, CG, CJG with 22 kW<br>AC outlet: 63 A, 43 kVA                   |
| 400 VAC +/- 10% (50 Hz or 60 Hz) - CE Version<br>480 VAC or 270 VAC +/- 10% (50 Hz or 60 Hz) - UL Version                 |                                                                                         |                                                                                         |
| 90 kW                                                                                                                     | 50 kW                                                                                   | 20 kW                                                                                   |
| 22 kW                                                                                                                     | 43 or 22 kW                                                                             | 43 or 22 kW                                                                             |
| 150-920 Vdc                                                                                                               | 150-920 Vdc (HV), 150-500 Vdc                                                           | 150-500 Vdc                                                                             |
| Up to 2 (CCT, CJT models)<br>Up to 1 (C, CJ models)                                                                       | Up to 2 (CT, CJT, CG, CJG models)<br>Up to 1 (C, CJ models)                             | Up to 2 (CT, CJT, CG, CJG models)<br>Up to 1 (C, CJ models)                             |
| 3.9 m<br>Optional: 6.0 m / 8.0 m                                                                                          | 3.9 m<br>Optional: 6.0 m / 8.0 m                                                        | 3.9 m<br>Optional: 6.0 m / 8.0 m                                                        |
| Standard: 200 A<br>High current: 300 A                                                                                    | 125 A                                                                                   | 125 A                                                                                   |
| 200 A                                                                                                                     | 125 A                                                                                   | 125 A                                                                                   |
| TN-S, TN-C, TN-C-S, TT (Requires external RCD)                                                                            | TN-S, TN-C, TN-C-S, IT, TT (Requires external RCD)                                      | TN-S, TN-C, TN-C-S, IT, TT (Requires external RCD)                                      |
| 3-phase, neutral, protective earth (CE models)<br>3-phase, protective earth (UL models)                                   | 3-phase, neutral, protective earth (CE models)<br>3-phase, protective earth (UL models) | 3-phase, neutral, protective earth (CE models)<br>3-phase, protective earth (UL models) |
| Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection         |                                                                                         |                                                                                         |
| Type II                                                                                                                   | Type II                                                                                 | Type II                                                                                 |
| > 0.96                                                                                                                    | > 0.96                                                                                  | > 0.96                                                                                  |
| < 4.5%                                                                                                                    | < 5%                                                                                    | < 5%                                                                                    |
| > 95% (peak)                                                                                                              | > 94% (peak)                                                                            | > 94% (peak)                                                                            |
| 80 W<br>980 W (with heater active)                                                                                        | 80 W<br>980 W (with heater active)                                                      | 80 W<br>980 W (with heater active)                                                      |
| 10 kA (CE models)<br>65 kA (UL models)                                                                                    | 10 kA (CE models)<br>65/10 kA (UL models)                                               | 10 kA (CE models)<br>65/10 kA (UL models)                                               |
| < 1 A                                                                                                                     | < 1 A                                                                                   | < 1 A                                                                                   |
| < 100 A                                                                                                                   | < 100 A                                                                                 | < 100 A                                                                                 |
| 0.8 mA                                                                                                                    | 0.8 mA                                                                                  | 0.8 mA                                                                                  |
| Optional: MID metering for AC and DC outlets<br>Optional: Eichrecht/PTB compliant metering solution for AC and DC outlets |                                                                                         |                                                                                         |
| GSM / 4G / LTE                                                                                                            | GSM / 4G / LTE                                                                          | GSM / 4G / LTE                                                                          |
| Internet access via 4G / 3G / Ethernet (RJ45)                                                                             | Internet access via 4G / 3G / Ethernet (RJ45)                                           | Internet access via 4G / 3G / Ethernet (RJ45)                                           |
| App, ISO 15118 Plug'n'Charge, RFID, PIN code                                                                              | App, ISO 15118 Plug'n'Charge, RFID, PIN code                                            | App, ISO 15118 Plug'n'Charge, RFID, PIN code                                            |
| 7" LCD high-contrast touchscreen                                                                                          | 7" LCD high-contrast touchscreen                                                        | 7" LCD high-contrast touchscreen                                                        |
| OCPP 1.5 / 1.6 and OPC-UA                                                                                                 | OCPP 1.5 / 1.6 and OPC-UA                                                               | OCPP 1.5 / 1.6 and OPC-UA                                                               |
| ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare, NFC, Calypso, Ultralight, PayPass, HID; and more                     |                                                                                         |                                                                                         |
| Yes. The button can be removed with a retrofit kit.                                                                       |                                                                                         |                                                                                         |
| over-the-air updates via ABB web portal                                                                                   |                                                                                         |                                                                                         |
| ABB web portal, on-board Service Portal, OCPP 1.6, OPC-UA                                                                 |                                                                                         |                                                                                         |

# Technical specification

|                              | Terra 184                                                                                                                           | Terra 124                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Multilanguage system         | English, Italian, Spanish, German, French, ... and more than 50 languages available and new languages configurable via ABB Web Tool |                           |
| General characteristics      |                                                                                                                                     |                           |
| IP and IK rating             | IP-54 and IK-10 (cabinet) / IK-8 (touchscreen)                                                                                      |                           |
| Enclosure type               | Stainless steel 430 and Aluminium                                                                                                   |                           |
| Operational altitude         | Up to 2000 m                                                                                                                        | Up to 2000 m              |
| Operating temperature range  | -35 °C to +55 °C                                                                                                                    | -35 °C to +55 °C          |
| Storage temperature range    | -40 °C to +70 °C                                                                                                                    | -40 °C to +70 °C          |
| Humidity                     | 20-95 % Rh non-condensing                                                                                                           | 20-95 % Rh non-condensing |
| Mounting                     | Free-standing cabinet                                                                                                               | Free-standing cabinet     |
| Dimensions (H x W x D)       | 1900 x 565 x 880 mm                                                                                                                 | 1900 x 565 x 880 mm       |
| Mass                         | 395 kg                                                                                                                              | 365 kg                    |
| Certification and standards  |                                                                                                                                     |                           |
| Charging system              | IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000                    |                           |
| Communication to the EV      | DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM, CHAdeMO 1.2                                                                  |                           |
| Communication to the backend | OCPP 1.6 JSON                                                                                                                       |                           |
| Safety                       | Risk assessment                                                                                                                     |                           |
| Warranty                     | Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available               |                           |

| Terra 94                                                                                                                            |                           | Terra 54                  | Terra 24                  |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|
| English, Italian, Spanish, German, French, ... and more than 50 languages available and new languages configurable via ABB Web Tool |                           |                           |                           |
| IP-54 and IK-10 (cabinet) / IK-8 (touchscreen)                                                                                      |                           |                           |                           |
| Stainless steel 430 and Aluminium                                                                                                   |                           |                           |                           |
| Up to 2000 m                                                                                                                        | Up to 2000 m              | Up to 2000 m              | Up to 2000 m              |
| -35 °C to +55 °C                                                                                                                    | -35 °C to +55 °C          | -35 °C to +55 °C          | -35 °C to +55 °C          |
| -40 °C to +70 °C                                                                                                                    | -40 °C to +70 °C          | -40 °C to +70 °C          | -40 °C to +70 °C          |
| 20-95 % Rh non-condensing                                                                                                           | 20-95 % Rh non-condensing | 20-95 % Rh non-condensing | 20-95 % Rh non-condensing |
| Free-standing cabinet                                                                                                               | Free-standing cabinet     | Free-standing cabinet     | Free-standing cabinet     |
| 1900 x 565 x 880 mm                                                                                                                 | 1900 x 565 x 780 mm       | 1900 x 565 x 780 mm       | 1900 x 565 x 780 mm       |
| 350 kg                                                                                                                              | 325 kg                    | 275 kg                    | 275 kg                    |
| IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000                    |                           |                           |                           |
| DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM, CHAdeMO 1.2                                                                  |                           |                           |                           |
| OCPP 1.6 JSON                                                                                                                       |                           |                           |                           |
| Risk assessment, Fire analysis                                                                                                      |                           |                           |                           |
| Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available               |                           |                           |                           |

# Designed for flexibility

A configuration for every use case



**Terra 94/124/184 C**  
Single outlet CCS with cable management system



**Terra 94/124/184 CC**  
Dual outlet CCS with cable management system



**Terra 94/124/184 CJ**  
Dual outlet CCS and CHAdeMO with cable management system and credit card reader



## Power levels

- 50 kW
- 90 kW
- 120 kW / 60 kW shared
- 180 kW / 90 kW shared

## Charging standards

- CCS+CHAdeMO
- CCS-only single outlet
- CCS-only dual outlet

## Cable management

- Reliable, tested system
- Factory or field install

## User access / payment

- OCPP Integration
- Credit card reader
- PIN via Web Tools
- Autocharge/ISO 15118





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