

PRODUCT LEAFLET

# Terra DC fast chargers

## Terra 124/184 UL



The Terra all-in-one DC fast charger offers power up to 180 kW, with convenient charging times for every EV – including those with HV batteries.

The compact, modular design makes it perfect for retail, highway or fleet use, with power sharing to further optimize utilization. All Terra chargers feature connectivity for remote services and OCPP enablement.

— The Terra 124/184 is available as shown above in CCS-single, CCS-dual variants. Also shown on the right is the NEVI-compliant Terra 184 with CCS1 and NACS in a dual configuration. CCS+CHAdeMO is also available on request.

Cable management options are strongly recommended for enhanced reliability and usability.

### Flexible configuration

Terra DC fast chargers with power up to 180 kW are designed for the most compact, reliable and future-proof demands. In addition to a range of power selections, Terra chargers can be configured with in single or dual outlet format. Cable management, payment enablement and connectivity choices also offer owners, operators and site hosts options tailored to the needs of every charging site, from public to fleet needs.

### NEVI programs

ABB E-mobility also offers an FHWA Build America, Buy America compliant Terra 184 which can deliver up to 180 kW of dedicated power. This model enables hardware, digital and operational NEVI program standards. See our [NEVI Guide](#) for more details.

### The most reliable, scalable choice

ABB E-mobility's Terra chargers offer a redundant power architecture for the highest uptime in the EV infrastructure industry. These chargers can meet the needs of high voltage BEVs up to 920V, making these systems fully compatible with all current and future EVs. With a host of configuration options, Terra DC fast chargers are ready to support EV market growth over time.

### Power sharing for high utilization

Business model enablement and high utilization are critical to successful EV charging infrastructure programs. With this goal in mind, ABB E-mobility has designed the Terra 124 and Terra 184 models with power sharing technology for charging two vehicles at the same time.

— Terra "all in one" chargers are offered from up to 180 kW.

The Terra 124 and 184 models can charge two vehicles at the same time.



**Terra 124**  
one EV  
up to  
**120 kW**



**Terra 124**  
two EVs  
each up to  
**60 kW**



**Terra 184**  
one EV  
up to  
**180 kW**



**Terra 184**  
two EVs  
each up to  
**90 kW**



**Terra 184 NEVI**  
one EV  
up to  
**180 kW**

Advanced, high power design

- A compact, all-in-one charger up to 180 kW
- Terra 124 and Terra 184 can fast-charge two vehicles at the same time
- High current connectors reduce charge times
- Up to 920 VDC serving every EV
- Modular power module design allows for increased reliability and easier servicing
- Delivers output power continuously and reliably over its lifetime
- Robust all-weather powder-coated stainless steel enclosure
- Bright, daylight readable touchscreen display with graphic visualization of charging session
- Design enables ADA compliant installations
- Quick and easy installation as well as serviceability

Flexible configurations and options

- Connector choices include configurations include CCS-single, CCS-dual and CCS+CHAdEMO; NACS connector variants will be available in the future
- RFID authorization modes
- Optional integrated payment terminal
- Reliable cable management system available as ordered or field upgrade
- Integrated payment terminal with contactless and EMV chip features
- Web tools for statistics and PIN access management

Connectivity features

- Always connected, enabling remote services, updates and upgrades
- ISO 15118 enabled
- Designed for quick installation and fast serviceability
- Pre-integrated with OCPP networks, payment platforms and energy management APIs
- Customizable user interface

Safety and certification

- UL certified
- High short circuit current rating
- ENERGY STAR certified
- NTEP and CTEP certified
- OCA 1.6J certified (Feb 2024)

| Specifications                               | Terra 124   | Terra 184              | Terra 184 NEVI      |
|--|---|------------------------|---------------------|
| Electrical                                   |   |                        |                     |
| Maximum output power                         | 120 kW<br>or 60 kW x 2  | 180 kW<br>or 90 kW x 2 | 180 kW              |
| AC Input voltage                             | 480Y / 277 VAC +/- 10% (60 Hz)  |                        |                     |
| AC input connection                          | 3-phase: L1, L2, L3, GND (no neutral)   |                        |                     |
| Nominal input current and input power rating | 153 A, 128 kVA  | 230 A, 192 kVA         | 230 A, 192 kVA      |
| Recommended upstream circuit breaker(s)      | 200 A   | 300 A                  | 300 A               |
| Power Factor*                                | > 0.96  |                        |                     |
| Current THD*                                 | < 5%  |                        |                     |
| Short circuit current rating                 | 65 kA   |                        |                     |
| DC output voltage                            | CCS-1: 150 - 920 VDC; NACS 150-920 VDC<br>CHAdEMO: 150 - 500 VDC  |                        |                     |
| DC output current                            | CCS1: 400 A (peak); NACS: 375 A; CHAdEMO: 200 A   |                        |                     |
| Efficiency*                                  | 96%   |                        |                     |
| Interface and Control                        |   |                        |                     |
| Charging protocols                           | CCS, CHAdEMO 1.2 option   |                        |                     |
| User interface                               | 7" high brightness full color touchscreen display   |                        |                     |
| RFID system                                  | ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso, (option: Legic)   |                        |                     |
| Network connection                           | GSM/3G/4G modem; 10/100 Base-T Ethernet   |                        |                     |
| Communication                                | OCPP 1.6J Core and Smart Charging Profiles; OCPP 2.0.1 Core; Autocharge via OCPP  |                        |                     |
| Supported languages                          | Multiple languages supported  |                        |                     |
| Environment                                  |   |                        |                     |
| Operating temperature                        | -35 °C to +55 °C / -31 °F to +131 °F<br>(de-rating characteristics apply at extreme temperatures)   |                        |                     |
| Recommended storage                          | -10 °C to +70 °C / 14 °F to +158 °C (dry environment)   |                        |                     |
| Protection                                   | IP54, NEMA 3R; indoor and outdoor rated   |                        |                     |
| Humidity                                     | 5% to 95%, non-condensing   |                        |                     |
| Altitude                                     | 2000 m (6560 ft)  |                        |                     |
| General                                      |   |                        |                     |
| Charge cable                                 | 6 m (19.6 ft)   |                        |                     |
| Dimensions (H x W x D)                       | 1900 x 565 x 880 mm / 74.8 x 22.2 x 34.6 in   |                        |                     |
| Weight                                       | 365 kg /<br>800 lbs   | 395 kg /<br>870 lbs    | 395 kg /<br>870 lbs |
| Compliance and safety                        | UL 2202, CSA No.107.1-16; UL 2231-1, UL 2231-2, CSA STD C22.2 No.107.1; NEC Article 625, EN 61851, EN 62196; CHAdEMO 1.2; DIN 70121, ISO 15118; IEC 61000-6-3; EMC Class A (90-180 KW), FCC Part 15; <a href="#">ENERGY STAR</a> ® certified; <a href="#">NTEP</a> / <a href="#">CTEP</a> ; OCA 1.6J (Feb 2024); <a href="#">NEVI configuration</a> : FHWA Build America, Buy America |                        |                     |

\*Data shown at nominal output power

**ABB E-mobility Inc.**  
950 W Elliott Rd. Suite 101  
Tempe, AZ, 85284  
United States  
Phone: 800-435-7365  
E-mail: [US-evci@abb.com](mailto:US-evci@abb.com)

[e-mobility.abb.com](http://e-mobility.abb.com)

**ABB E-mobility Inc.**  
800 Hymus Boulevard  
Saint-Laurent, QC H4S 0B5  
Canada  
Phone: 800-435-7365  
E-mail: [CA-evci@abb.com](mailto:CA-evci@abb.com)

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