

PRODUCT LEAFLET

Terra DC fast chargers

Terra 94/124/184 UL



— The Terra 94/124/184 is available as shown above in CCS-single, CCS-dual and NEVI-compliant variants. CCS+CHAdeMO is also available on request. NACS connector variants will be available in the future.

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 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 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 94
one EV
up to

90 kW



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
- 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

Specifications	Terra 94	Terra 124	Terra 184	Terra 184 NEVI
Electrical				
Maximum output power	90 kW	120 kW or 60 kW x 2	180 kW 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	115 A, 96 kVA	153 A, 128 kVA	230 A, 192 kVA	230 A, 192 kVA
Recommended upstream circuit breaker(s)	150 A	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; CHAdEMO: 150 - 500 VDC			
DC output current	200 A	CCS1: 400 A (peak) CHAdEMO: 200 A		
Efficiency*	95%			
Interface and Control				
Charging protocols	CCS1, CHAdEMO 1.2			
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 Autocharge via OCPP			
Supported languages	Multiple languages supported			
Environment				
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (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	350 kg / 775 lbs	365 kg / 800 lbs	395 kg / 870 lbs	395 kg / 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; ENERGY STAR® certified; NTEP/CTEP; NEVI configuration: FHWA Build America, Buy America			

*Data shown at nominal output power

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