

DC FAST CHARGER HARDWARE

HARDWARE OVERVIEW

Key features

- A compact, all-in-one charger from 90 kw to 180 kw
- Terra 124 and Terra 184 can fast-charge two vehicles at the same time
- Paralleled power module topology with automatic failover offers high uptime through redundancy
- Delivers output power continuously and reliably over its lifetime
- Flexible configurations include CCS-single, CCS-dual and CCS+CHAdeMO-dual outlets
- Up to 920 VDC for every passenger or fleet EV
- Bright, daylight readable touchscreen display with graphic visualization of charging session
- High short circuit current rating
- EMC Class B certified for safe use at fuel stations, retail centers, offices, and residential-adjacent sites
- Design enables ADA compliant installations
- RFID authorization modes
- Always connected, enabling remote services, updates and upgrades
- Robust all-weather powder-coated stainless steel enclosure
- Quick and easy installation as well as serviceability

Optional features

- Reliable cable management system available as ordered or field upgrade
- High current option can deliver up to 400 A for faster peak charging without liquid cooled cables
- Customizable user interface
- Integrated payment terminal
- Web tools for statistics and PIN access management
- Integration with OCPP networks, payment platforms and energy management
- Autocharge and ISO 15118 enabled

Why charging operators and fleets prefer ABB

- ABB offers the most advanced, safe and reliable EV infrastructure and grid connected technologies
- ABB Connected Services enable every business and remote services model
- ABB's decade of EV charging experience and close cooperation with EV OEMs, networks and fleets



Terra 94

One EV up to 90kW



Terra 124

One EV up to 120kW



Terra 124

Two EVs up to 60kW



Terra 184

One EV up to 180kW



Terra 184

Two EVs up to 90kW

The Terra 94/124/184 is available with CCS-only, CCS-dual and CCS+CHAdeMO dual outlets. Cable management options enhance reliability and usability. 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.

To learn more about the Charge Management Hardware, please contact your AssetWorks sales representative or visit us online at assetworks.com.

HARDWARE SPECIFICATIONS

	Terra 94		Terra 124	Terra 184
Electrical				
Maximum output power	90 kW	120 kW or 60 kW x 2		180 kW or 90 kW x 2
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
Recommended upstream circuit breaker(s)	150 A	200 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	CCS-1: 200 A CHAdeMO: 200 A	CCS1 200 A, CHAdeMO: 200 A Optional CCS1 300 A (nominal) and 400 A (peak) high current cable(s)		
Efficiency*	95%			
Interface and Control				
Charging protocols	CCS1 and 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 1.6 Core and Smart Charging Profiles; Autocharge			
Supported languages	English (others available on request)			
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
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 B, FCC Part 15			

*Data shown at nominal output power