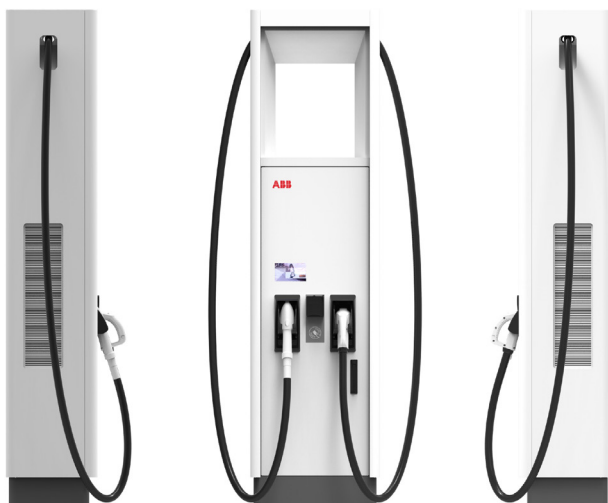


Electric Vehicle Infrastructure

Terra HP high power charging



ABB's Terra HP family has ultra-high current charging capability and can charge both 400 V and 800 V cars at full power. With 375 A output, a single power cabinet can charge a 400 V car at full 150 kW continuously.

The advanced Dynamic DC power sharing technology ensures the most efficient way of charging multiple high-power EVs while optimizing the available grid connection.

Terra HP is ideally suited for highway corridor charging at retail and travel plazas as well as diverse fleet charging applications. The system is expandable over time by adding additional power cabinets and charge posts after initial site installation. This capability delivers future-proof site planning flexibility by offering a cost efficient way to build expandable charge points that can grow with EV market demand.

A single power cabinet system can charge a 400 V car at full 150 kW (375 A) continuously. With Dynamic DC power sharing technology, a two power cabinet configuration can charge two EVs simultaneously, distributed between two charge posts, with up to 350 kW and 500 A available, while optimizing the available grid connection.

The system has very high uptime due to redundancy on power and communication, along with individually cooled charging cables. Additionally, the power cabinet has already proven its reliability in commercial e-bus field installations around the world.

ABB Terra HP key features

- Ultra-high current of 375 A per individual power cabinet
- Dynamic DC functionality: 500 A per charge post, to charge multiple EVs simultaneously
- Wide voltage range: 150 – 920 V
- Modular system: 175 – 350 kW
- Supports CCS (500 A liquid-cooled cables) and CHAdeMO (200 A) charging standards
- Compatible with all current and next generation BEVs
- Integrated chiller in charge post allows for ease of installation
- Distance between power cabinet(s) and charge post(s) up to 60 m
- High brightness, intuitive, easy to use 7" touchscreen display
- Multiple payment options
- ADA compliant
- Buy America optional

| Technical specifications | |
|-----------------------------------|---|
| DC output power per power cabinet | 175 kW peak 160 kW continuous (375 A) |
| DC output voltage range | 150 – 920 V _{DC} |
| Maximum DC output current | 375 or 500 A per charge post CCS 200 A CHAdeMO |
| AC Input (UL) | 3-phase 480 V _{AC} ± 10 % 265 A, 174 kVA, 60 Hz |
| Power factor | ≥ 0.97 |
| Efficiency (full load) | ≥ 94% at full load |
| Mechanical impact protection | IK 10 (screen: IK 08) |
| Environment | IP 54, outdoor use |
| Operating temperature | -35 °C to +55 °C |
| RFID | ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™1, NFC, Mifare, Calypso (option: Legic) |
| Network connections | GSM/2G/3G 10/100 base-T Ethernet |
| Key compliance and certification | UL, cUL EN 61851, EN 62196, CHAdeMO 1.0 IEC 61000-6-3 EMC Class B DIN 70121, ISO 15118 BA Rule 49 CFR Part 661.5 |

| Power cabinet | |
|------------------------|---|
| Dimensions (H x W x D) | 2030 x 1170 x 770 mm 79.9 x 46.1 x 30.3 in |
| Weight | 1340 kg / 2954 lbs |
| Charge post | |
| Dimensions (H x W x D) | 2390 x 620 x 440 mm 94 x 24.4 x 17.3 in |
| Weight | 250 kg / 550 lbs |

ABB Terra HP optional features

- Car presence detection
- 15" high brightness touch screen
- Customizable user interface
- Charging site load balancing
- Integrated payment terminal

ABB Ability Connected Services

Connected Services provide enhanced functionality for:

- Easily connect chargers to back offices, payment platforms or smart grid systems
- Remote configuration, access management
- Remote diagnostics, repair and over-the-air software updates, keeping costs low
- Detailed charger fleet statistics, analytics and reports



—
175 kW
375 A
150-920 V_{DC}



—
Dynamic DC
2x 350 kW
2x 500 A
150-920 V_{DC}




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