The system is modular and expandable over time. It is possible to add additional power cabinets and charge posts later on. This is a cost efficient way to scale charging sites with the demands of a growing EV base.

All ABB EV chargers come with Internet based ABB Ability Connected Services to allow customers to easily connect their chargers to different software systems like back-offices, payment platforms or smart grid energy systems. This enables remote assistance, tailored diagnostic trouble shooting and repair, and remote updates and upgrades. A reliable, secure, cost efficient and future proof connectivity solution, based on open industry interfaces.

Terra HP is ideally suited for highway rest stops and petrol stations where the highest power is required to minimize charging time. Depending on customer needs Terra HP supports 500 A CCS with a liquid cooled cable and 200 A CHAdeMO.

A charge post paired with one power cabinet can deliver 375 A and 160 kW continuously, meaning today’s 400 V$_{dc}$ drive train vehicles can charge at high power. Next generation vehicles are supported with an output voltage range of up to 920 V$_{dc}$.

A charge post paired with two power cabinets delivers up to 500 A and 350 kW. With ABB Dynamic DC power sharing technology a second charge post can be added to an installation with two power cabinets, whereby available power is dynamically shared between the charge posts. As this requires only two instead of four power cabinets to reach 500 A at two charge posts, investments are significantly reduced.
Technical specifications

- **Compliance and certification**: CE models and UL models available
- **Environment**: IP 54, outdoor use
- **Mechanical impact protection**: IK 10 (screen: IK 08)
- **Operating temperature**: -35 °C to +55 °C (with derating)

**Charge post**

- **DC output current**: 500 A CCS (liquid cooled)
  - 200 A CHAdeMO
- **DC output voltage range**: 150 – 920 V DC
- **User interface**: 7” high brightness touch screen
- **Lights**: RGB led strips with customizable colors
  - White top light
- **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
- **Dimensions (H x W x D)**: 2390 x 620 x 440 mm
- **Weight**: 250 kg

**Power cabinet**

- **Output power per power cabinet**: 175 kW peak
  - 160 kW continuous (375 A)
- **AC Input – CE models**: 400 V AC ±10%, 50 Hz
  - 3P + PE (no neutral)
  - 277 A nominal @400 V AC (160 kW output)
  - 308 A peak @360 V AC (175 kW output)
- **AC Input – UL models**: 480 V AC ±10%, 60 Hz
  - 3P + PE (no neutral)
  - 215 A nominal @480 V AC (160 kW output)
  - 272 A peak @432 V AC (175 kW output)
- **Efficiency (full load)**: ≥ 94% at full load
- **Power factor**: ≥ 0.97
- **EMC emission**: Standard: Class A (industrial)
  - Optional: Class B (residential) with external filter
- **Dimensions (H x W x D)**: 2030 x 1170 x 770 mm
- **Weight**: 1340 kg

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**ABB Terra HP key features**

- High output of 375 A and 160 kW continuous per power cabinet
- Charging up to 500 A and 350 kW with two power cabinets
- Dynamic DC functionality: 500 A on two charge posts with only two instead of four power cabinets
- Future proof due to wide output voltage range of 150 – 920 V DC supporting today’s and next generation EVs
- 500 A CCS with liquid-cooled cable
- 200 A CHAdeMO
- Integrated chiller in the charge post allows for ease of installation and creates redundancy on site level
- High brightness, intuitive, easy to use 7” touchscreen display
- Integrated RGB led strips with customizable color
- Multiple payment options
- IEC 61000 EMC Class B (residential) compliant with optional external EMC filter if needed

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**ABB Terra HP optional features**

- 15” high brightness touch screen
- Customizable user interface
- Site power management
- Integrated payment terminal

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**Why charging operators prefer ABB**

- ABB Ability Connected Services:
  - Easily connect chargers to back offices, payment platforms or smart grid systems
  - Remote diagnostics, repair and over-the-air software updates, keeping costs low
- ABB’s years of EV charging experience and close cooperation with EV manufacturers
- High volume production with a globally distributed manufacturing base
- Local ABB presence in over 100 countries

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