Smarter Mobility
Terra HP high power charging

Terra HP is a modular high power charging system with high output current capability, supporting both 400 V\text{DC} and 800 V\text{DC} vehicles. A single power cabinet system can deliver up to 375 A and 160 kW continuously, and 175 kW peak. With two power cabinets the system delivers up to 500 A and 350 kW.

With unique ABB Dynamic DC power sharing technology two charge posts can be powered by just two instead of four power cabinets, whereby available power is dynamically shared between the charge posts. This is a cost effective solution for sites with multiple charge posts.

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.
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

ABB Terra HP optional features
- 15” high brightness touch screen
- Customizable user interface
- Site power management
- Integrated payment terminal

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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