ABB’s Terra HP generation III charge post is a 175 to 350 kW high power charger ideally suited for highway corridor and EV fleet applications. With ABB Dynamic DC power sharing technology, power cabinets can be connected to charge one vehicle at up to 350 kW and 500 A or two vehicles simultaneously at up to 175 kW and 375 A. This architecture enables higher utilization of charging assets.

**Premium user experience**

**Easy to use**
Terra HP generation III charge post offers a premium charging experience with high output power at low noise levels, a long charge cable with cable retraction system, small footprint of the charge post, and several authentication, payment and customization options.

**Brand experience**

**Customizable branding**
Make the charger a real part of your brand image for an optimum user experience. Customize the charger by applying wrapping, selecting a matching color for the LED strips, and customizing the user interface to match brand identity.

**Profitable operation**

**Built for business**
Terra HP fully supports commercial operation with Dynamic DC power sharing to optimize use of charging assets, site energy management solutions to enable future growth while optimizing grid connection costs, and remote software updates enabling a future proof system supporting today’s and tomorrow’s EVs.
Key features
• Long cables with cable retraction system.
• 500 A charging at low noise levels.
• Elegant charge post in small foot-print with integrated cooling system.
• High level of user safety backed by third party testing.
• Integrated RGB LED strips with customizable color.

Optional features
• Dynamic DC power sharing.
• Customizable user interface.
• Integrated payment terminal.

Dynamic DC power sharing illustrated

High power charging at up to 350 kW and 500 A at either charge post.
Simultaneous charging at up to 175 kW and 375 A at both charge posts.

Why charging operators prefer ABB
• ABB Ability™ Connected Services:
  - Charger Connect: Easily connect chargers to OCPP back offices, over-the-air software updates.
  - Charger Care: Remote diagnostics and resolution, service case management, notifications, data export.
• ABB’s decade of EV charging experience and close cooperation with EV OEMs, networks and fleets.
• High volume production with a globally distributed manufacturing base.
• Industry leading uptime with a global and local service presence.

For more information
abb.com/ev-charging
E-mail: info.evi@nl.abb.com

Technical specifications

Charge post
Charging performance 500 A continuous up to 35°C with noise level of ≤60 dB(A) at 1 m
Charge cable 5.3 m / 17 ft with retraction system
DC output current 500 A CCS (liquid cooled)
200 A CHAdeMO
DC output voltage 150 – 920 V DC
Maximum noise level 68 dB(A) at 1 m
Touch screen 15” high brightness
RFID ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™1, NFC, Mifare, Calypso
Network connections 4G, Ethernet
Dimensions (H x W x D) 2458 x 590 x 425 mm / 96.8 x 23.2 x 16.7 in
Weight 250 kg / 551 lbs
Connector types CCS1 / CCS2 / CHAdeMO

Power cabinet
Output power 175 kW up to 40°C
Output power derating 5% per 5 additional degrees
Output current 1 cabinet: 375 A
2 cabinets: 500 A
AC connection L1, L2, L3, GND (no neutral)
CE version 400 V AC ±10%, 50 Hz (option: 60 Hz)
277 A, 192 kVA nominal
Recommended breaker: 315 A
UL version 480Y/277 V AC +/-10%, 60 Hz
231 A, 192 kVA nominal
Recommended breaker: 300 A
CSA version 600 V AC ±10%, 60 Hz
185 A, 192 kVA nominal
Recommended breaker: 250 A

Short circuit rating
CE: 25 kAIC
UL/CSA: 65 kAIC

Efficiency ≥ 0.97
Power factor ≥ 0.97
THDi ≤ 8%

EMC emission (conducted)
Standard: Class A (industrial)
Optional: Class B (residential) with external filter
Noise level ≤67 dB(A) at 1 m
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

System
Compliance CE, cTUVus for UL and Canada
Environment IP64, NEMA 3R outdoor use
IK10 (screen: IK08)
Operating temperature -35 °C to +55 °C (derating applies)
Storage +5 to +40 °C with RH 5 to 85%
Altitude 2000 m / 6560 ft