

PRODUCT LEAFLET

# Electric Vehicle Infrastructure

## Terra High Power - GEN III



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**

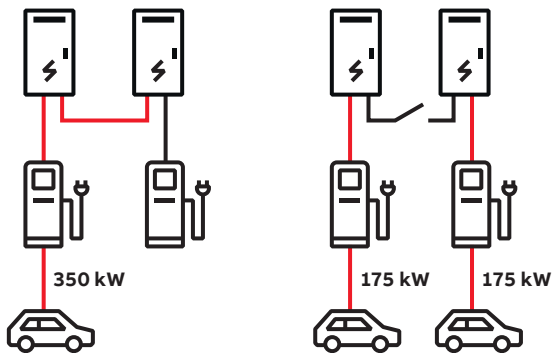
- Long cables with cable retraction system.
- 500 A charging at low noise levels.
- Elegant charge post in small foot-print with integrated cooling system.
- High level of user safety backed by third party testing.
- Integrated RGB LED strips with customizable color.

**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](http://abb.com/ev-charging)

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**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
Overvoltage	CAT III
Efficiency	≥ 94% at full load
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	IP54, 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