

Overview

The ABB Terra High Power is a 175kW to 350kW DC Fast charger split system. With dynamic power sharing technology, power cabinets can be connected to charge one vehicle at up to 350kW and 500A or two vehicles simultaneously at up to 175kW and 375A. The Terra High Power offers a premium charging experience with high output power in a small footprint to optimize fleet charging operations.

Primary Use Cases

- Most fleet charging use cases, where efficient charging is prioritized
- Charging depots supporting a variety of EVs along major routes
- Various space-constrained charging and parking locations with fast charging needs

Key Benefits

- Simultaneous (split power) charging
- Long cables with cable retraction system
- Fast charging in a compact, space-saving footprint
- Access control via PIN or RFID (cards by request)
- Credit card reader or payment by mobile app (by request)

Managed by



Charge Management Software (CMS)

- User-friendly, integrates with existing systems
- Maximize fleet productivity
- Minimize charging-related energy costs
- Mitigate demand charges with load management

Warranty & Maintenance Options

... backed by an in-house team of service experts

- Standard 2-year (24 month) Warranty included with every InCharge charger (covers parts; restrictions may apply)
- Customizable options to cover parts, labor, uptime SLAs, & more



Terra High Power Cabinet



Terra High Power
Dual CCS1 / CHAdeMO
Dispenser with Credit Card
Reader



Terra High Power
Single CCS1
Dispenser



Configuration	Value
Voltage	480Y / 277 Vac +/-10%
AC Input Power Connection	L1, L2, L3, GND (no neutral)
Frequency	60 Hz
Recommended Breaker	300A
Max Current Draw	231A
Power Factor	≥ 0.97
THD (Total Harmonic Distortion)	≤ 8%
Output Parameters	Value
Voltage	150-920 Vdc
Current - Max	Power Cabinet: 375A (one cabinet), 500A (two cabinets) Dispenser: 500A CCS (liquid cooled) / 200A CHAdeMO
Power - Max	175kW (one cabinet), 350kW (two cabinets)
System Efficiency - Max	≥ 94% at full load
Controls & Interface	Value
HMI	15in high brightness touchscreen display
Communication	OCPP 1.6J
Network Connection	4G, Ethernet
RFID	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™1, NFC, Mifare, Calypso
Language	English (others available upon request)
Environment	Value
Temperature - Operating	-31°F to 131°F/ -35°C to +55°C *
Temperature - Storage	41°F to 104°F/+5°C to +40°C
Altitude - Operating	6560ft (2000m)
Protection - Intrusion	IP54, NEMA 3R outdoor use IK10 (screen: IK08)
Cables & Connectors	Value
Connector Types	CCS1, CCS2, CHAdeMO
Cable Length	17ft (5.3m) with retraction system
General	Value
Dimensions	Power Cabinet: (D x W x H) 30.3in x 46.1in x 79.9 / 770mm x 1170mm x 2030mm Dispenser: (D x W x H) 16.7in x 23.2in x 96.8in / 425mm x 590mm x 2458mm
Weight	Power Cabinet: 2954lbs / 1340kg Dispenser: 551lbs / 250kg
Certifications	UL 2202

*Derating characteristics apply at extreme temperatures

ABB Terra High Power

175kW/350kW DC Fast Split System

Product Code	Product Configuration
APC175D	Terra HP Cabinet 175 Dynamic
AD500-C1-R	Terra HP Charge Post CCS1 (500A, 17ft)
AD500-C1-C	Terra HP Charge Post CCS1 (500A, 17ft), Credit Card Reader
AD500-C1-C-CT	Terra HP Charge Post CCS1 (500A, 17ft), Credit Card Reader, CTEP
AD500200-C1CH-R	Terra HP Charge Post CCS1 (500A, 17ft) / CHAdeMO (200A, 17ft)
AD500200-C1C2-R	Terra HP Charge Post CCS1 (500A, 17ft) / CCS2 (500A, 17ft)

*Please note, the variants listed are representative and may not be a comprehensive list of available options. Consult with your InCharge Energy sales representative.