Overview

The ABB Terra 124 is a powerful 120kW DC Fast charger engineered to deliver efficient and reliable charging for electric vehicle fleets. It offers sequential and simultaneous (split power) charging, enhancing operational flexibility. This charger is Energy Star certified and available as Buy America compliant, accommodating many funding opportunity requirements. The compact Terra 124 is easy to install and ideal for constrained spaces.

Primary Use Cases

- Auto dealerships, for charging available inventory and for customer or public charging
- School electric bus fleets, particularly for long routes or fast midday recharge
- A variety of fleet parking applications where DC charging is needed in minimal space

Key Benefits

- Energy Star certified
- Available as Buy America compliant
- Sequential and simultaneous (split power) charging
- High current cable configurations available for even faster charging
- 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)

ABB Terra 124 Dual CCS1 / CHAdeMO with Credit Card Reader & Cable Retractors (Cable Retractors sold separately)

Managed by

InControl™

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

Charger Technical Specifications

ABB Terra 124
All-in-One 120kW DC Fast charger

Configuration	Value
Voltage	480Y / 277 Vac +/- 10%
AC Input Power Connection	3-phase: L1, L2, L3, GND (no neutral)
Frequency	60Hz
Recommended Breaker	200A
SCCR	65kA
Max Current Draw	153A
Power Factor	>0.96
THD (Total Harmonic Distortion)	<5%
Output Parameters	**Value**
Voltage	CCS1: 150-920Vdc / CHAdeMO: 150-500Vdc
Current - Max	CCS1: 400A (peak) / CHAdeMO: 200A
Power - Max	120kW or 60kW x 2
System Efficiency - Max	96%
Controls & Interface	**Value**
HMI	7in high brightness full color touchscreen display
Communication	OCPP 1.6J Core and Smart Charging Profiles; OCPP 2.0.1 Core; Autocharge via OCPP
Network Connection	GSM/3G/4G modem; 10/100 Base-T Ethernet
RFID	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode, Mifare, Calypso
Language	English (others available upon request)
Environment	**Value**
Temperature - Operating	-31°F to 131°F/ -35°C to +55°C *
Temperature - Storage	14°F to 158°F/-10°C to +70°C
Humidity	5% - 95%, non-condensing
Altitude - Operating	6560 ft (2000 m)
Protection - Intrusion	IP54, NEMA 3R; indoor and outdoor rated
Cables & Connectors	**Value**
Connector Types	CCS1, CHAdeMO
Connector Technology	Segmented
Cable Length	19.6ft (6m)
General	**Value**
Materials & Finish	Enclosure: all-weather powder-coated stainless steel
Supported Protocols	ISO15118-2
Dimensions	(D x W x H) 34.6in x 22.2in x 74.8in / 880mm x 565mm x 1900mm
Weight	800lbs / 365kg
Certifications	UL 2202

*Derating characteristics apply at extreme temperatures

ABB Terra 124
All-in-One 120kW DC Fast charger

Product Code	Product Configuration
A120-C1C1-R	Terra 124 CCS1 (200A, 20ft) / CCS1 (200A, 20ft)
A120-C1C1-C	Terra 124 CCS1 (200A, 20ft) / CCS1 (200A, 20ft), Credit Card Reader
A120-C1CH-R	Terra 124 CCS1 (200A, 20ft) / CHAdeMO (200A, 20ft)
A120H-C1C1-R	Terra 124 High Current CCS1 (400A, 20ft) / CCS1 (400A, 20ft)
A120H-C1C1-A	Terra 124 High Current CCS1 (400A, 20ft) / CCS1 (400A, 20ft), EV Connect Mobile Payment App
A120H-C1C1-C	Terra 124 High Current CCS1 (400A, 20ft) / CCS1 (400A, 20ft), Credit Card Reader
A120H-C1CH-R	Terra 124 High Current CCS1 (400A, 20ft) / CHAdeMO (200A, 20ft)

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