

Overview

Building on a decade of EV fast charging experience, the ABB Terra 54 offers easy installation and charger reliability in an all-in-one package. This product enables high uptime and continuous power delivery for seamless operations.

With its compact design that offers installation flexibility, the Terra 54 is ideal for

- commercial fleets seeking optimized vehicle management and utilization
- OEM test facilities
- a variety of parking applications where DC charging is needed in minimal space

Key Benefits

- 200 to 500Vdc output voltage range (200 to 920Vdc for HV) supports higher voltage DC charging
- 50kW-rated output power, compatible with the widest range of EVs
- Access control via PIN or RFID card (cards by request)
- Full color touchscreen display offers easier daylight readability
- Credit Card Reader + Payment by mobile app (upon request)
- Compact design for space saving power-to-footprint ratio
- Rated for indoor and outdoor use
- OCPP 1.6 standard supports interoperability
- Customizable warranty and maintenance options - backed by an in-house team of service experts
- 3G & 4G modem for connectivity to InControl
- TUV certification to UL 2202 to ensure safety
- 480V 3-phase input for high efficiency conversion
- Option for cable management with Cable Retractor Kit (see below)



ABB Terra 54 & 54HV



Configurations

Product	Configuration	SKUs
Single CCS1 Cable (19.6 ft)	Terra 54HV Single CCS1	ADC-50HV-480-C1-AC1R
Dual CCS1 Cable (19.6 ft) and CHAdeMO Cable (19.6 ft)	Terra 54HV CCS1/CHAdeMO	ADC-50HV-480-C1CH-AC1R

Accessories



Cable Retractor Kit

Dimensions
 (D) 5 in x (W) 35.75 in x (H) 7 in

SKU: JCA-DCR

Charger Technical Specifications

- Available with single connector: CCS1, or with dual connectors: CCS1-CCS1 or CCS1-CHAdeMO
- Cable Length: 19.6ft / 6m
- DIN70212 (AutoCharge) and ISO15118 (Plug and Charge) protocols supported
- Dimensions: (D x W x H) 30.7in x 22.2in x 74.8in / 780mm x 565mm x 1900mm | Weight: 775lbs / 350kg

Configuration	Value
Voltage	480Vac +/- 10%
AC Input Power Connection	3 Phase: L1, L2, L3, N, GND
Frequency	60 Hz
Recommended Breaker	80A
Power Factor	>0.96
THD Current	IEEE 519 Compliant; 5%
Output Parameters	Value
Voltage	200-500Vdc; 200-920Vdc (HV)
Current - Max	125A
Power - Max	50kW
System Efficiency - Max	>95%
Controls & Interface	Value
HMI	7" TFT LCD Display
Communication	OCPP 1.6J
Network Connection	GSM / 3G / 4G modem; 10/100 Base - T Ethernet
RFID	ISO/IEC 14443A/B, ISO/IEC15393, NFC, Mifare, Calypso
Language	English (others available on 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%
Altitude - Operating	Power derates 15% every 3,280ft above 6,561ft (1km above 2km)
Protection - Intrusion	IP54, NEMA 3R; indoor and outdoor
General	Value
Certifications	UL 2202, NEC Article 625, EN 61851, EN 62196
UL/TUV	Certificate Number: 72194193 01

*Derating characteristics apply at extreme temperatures