

Overview

Developed in close collaboration with leading electric vehicle manufacturers and trusted by energy suppliers and governments, the ABB Terra 24 DC charger is designed for fast charging, installation flexibility, and durability.

With its support of current and future EVs with high-voltage charging, plus its compact footprint with options for wall mounting or use on a pedestal (see below), the Terra 24kW DC Fast charger is ideal for

- OEMs and their auto dealers
- fleets with short dwell times and long-term electrification goals
- various parking applications or depot layouts

Key Benefits

- 150 to 920Vdc output voltage range
- 24kW-rated output power
- Access control via PIN or RFID card (cards by request)
- Full color touchscreen display offers easier daylight readability
- Customizable warranty and maintenance options - backed by an in-house team of service experts
- OCPP 1.6 standard supports interoperability
- 4G modem for connectivity to InControl
- Compact robust all-weather enclosure for indoor and outdoor use
- TUV certification to UL 2202 for reliable safety
- 480V 3-phase input for high efficiency conversion



ABB Terra 24



Configurations

Product	Configuration	SKUs
Single CCS1 Cable (23 ft)	Terra 24 - Single CCS	ADC-24-480-C1-WC1R
Dual CCS1 Cable (23 ft) and CHAdeMO Cable (23 ft)	Terra 24 - CCS and CHAdeMO	ADC-24-480-C1CH-WC1R

Accessories



Premium Pedestal

Dimensions
(D) 15.6 in x (W) 31.5 in x (H) 96.25 in

SKU: JCA-DCP-D1-ICE



Light Bar Pedestal

Dimensions
(D) 16.1 in x (W) 37.4 in x (H) 83.8 in

SKU: IA-DCP-D3

Charger Technical Specifications

- Available with single connector: CCS1, or with dual connectors: CCS1-CCS1 or CCS1-CHAdeMO
- Cable Length: longer 23ft cable for maximum flexibility in charger placement
- DIN70212 and ISO15118 protocols supported
- Dimensions: (D x W x H) 11.8in x 23in x 30.3in / 300mm x 584mm x 770mm | Weight: 132lbs / 60kg

Configuration	Value
Voltage	1 Phase 208-240; 3 Phase 480V
AC Input Power Connection	1 Phase L1, L2, GND; 3 Phase L1, L2, L3, N, GND
Frequency	60 Hz
Recommended Breaker	1 Phase 125A; 3 Phase 50A
Max Current Draw	39A
Power Factor	>0.96
THD Current	IEEE 519 Compliant; 5%
Output Parameters	Value
Voltage	150 - 920Vdc (CCS1), 150-500Vdc (CHAdeMO)
Current - Max	60A
Power - Max	1 Phase 19.5kW@208V; 1 Phase 22.5kW@240V; 3 Phase 24kW
System Efficiency - Max	94%
Controls & Interface	Value
HMI	7" TFT LCD Display
Communication	OCPP 1.6J
Network Connection	GSM / 4G modem 10/100 Base - T Ethernet
RFID	ISO/IEC 14443A/B, ISO/IEC15693, NFC, Mifare, Calypso
Language	English (others available on request)
Environment	Value
Temperature - Operating	-31°F to 113°F / -35°C to +45°C *
Temperature - Storage	14°F to 158°F / -10°C to +70°C
Humidity	5 - 95%
Altitude - Operating	8200ft (2500m)
Protection - Intrusion	IP54, NEMA 3S; indoor and outdoor
General	Value
Certifications	UL 2202, NEC Article 625, EN 61851, EN 62196
UL/TUV Certificate Number	1 Phase: CU 72202051 01; 3 Phase: CU 72193958 01

*+45°C to +55°C with linear derating