



Terra 54 & 54HV

All-In-One 54kW DC Fast Charger



Description

Building on a decade of EV fast charging experience, the Terra 54 offers enhanced usability and reliability in an all-in-one package. The Terra 54 enables continuous 50 kW charging up to 500 VDC, and the Terra 54HV supports up to 920 VDC – accommodating both CCS1 and CHAdeMO functionality.

Key Benefits and Features

- 50 kW DC fast charger supporting CCS and CHAdeMO
- Paralleled power module topology with automatic failover offers high uptime through redundancy
- RFID authorization modes
- Robust all-weather powder-coated stainless steel enclosure

Specifications

- Available with CCS1 or CCS2, Dual CCS1 or CCS2 and Dual CCS1 & CHAdeMO connectors
- DIN70212 and ISO15118 protocols supported
- IP54, NEMA 3R; indoor and outdoor rated
- Dimensions (D x W x H): 30.7" x 22.2" x 74.8" / 780mm x 565mm x 1900mm
- Weight: 350 kg / 775 lbs



The Terra 54, shown with the CCS/CHAdeMO Configuration

Ordering Information

| Configuration | SKU |
|---|----------------------|
| Terra 54 Cable Retractor - Single CCS | ADC-50-480-C1CH-SC1R |
| Terra 54 Cable Retractor - Dual CCS & CHAdeMO | ADC-50-480-C1 |

Technical Specifications

| Configuration | SKU |
|---------------------------|--|
| Voltage | 480VAC +/- 10 % |
| AC Input Power Connection | 3-phase: L1, L2, L3, GND |
| Frequency | 60 Hz |
| Recommended breaker | 80A |
| Power factor | >0.96 |
| THD - Current | IEEE 519 Compliant; 5% |
| Output Parameters | Value |
| Voltage | 200 - 500 VDC; 200 - 920 VDC (HV) |
| Current - Max | 125 A |
| Power - Max | 50kW |
| System Efficiency - Max | >95% |
| Controls and Interface | Value |
| Charging Connectors | CCS1, CHAdeMO |
| 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/IEC 15393, 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 1 km above 2 km |
| Protection - Intrusion | IP54, NEMA 3R; indoor and outdoor rated |
| General | Value |
| Cable Length | 19.6 ft (6 m) |
| Cable Length - Optional | 25 ft (CCS1 only - contact InCharge) |
| Safety and EMI | UL 2202, NEC Article 625, EN 61851, EN 62196 |

* Derating characteristics apply at extreme temperatures

