Terra 54 & 54HV

All-In-One 50kW 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 the CCS functionality.

The Terra 54, shown with the CCS Configuration

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 and Dual CCS1 or CCS2 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

Ordering Information

Configuration	SKU
Terra 54 Cable Retractor - Single CCS	ADC-50-480-C1CH-SC1R
Terra 54 Cable Retractor - Dual CCS	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 Effciency - Max	>95%
Controls and Interface	**Value**
Charging Connectors	CCS
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

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