

Electric Vehicle Charging Infrastructure

Terra SC, single outlet DC fast charging station

The Terra SC is a Smart Connected charging station designed for convenient fast charging. It will fully charge a car in 30-120 minutes while the EV driver attends a meeting, works in the office, enjoys shopping, performs a sports activity or has a meal. This user centric approach means that the Terra SC solution offers a low threshold opportunity for EV service providers to tap into the increasing EV charging revenue stream.

The Terra SC Charging Station has been designed to optimally support charging of electric vehicles for company fleets, free parking and commercial parking situations. Terra SC is cost effective, designed for quick and easy installation, ease of use and offers a convenient fast charging time. Support of pin code access authorization is an easy to use, secure and effective tool to manage any EV company fleet. Terra SC's smart connectivity enables remote monitoring, maintenance, functional upgrades and supports the reporting of customer specific relevant usage statistics, such as CO2 reduction.

Main features

- Cost effective DC fast charger
- Quick & easy installation
 - Using widely available 3 x 32A input
 - Smart & ultra thin design
 - Simple floor and wall-mount connections
- Convenient charging time
 - 30% to 80% in 30 minutes
- Easy to use
 - 8" daylight readable touch screen
- Web-connected & future proof
 - Remote assistance, management and servicing
 - Smart software upgradeability

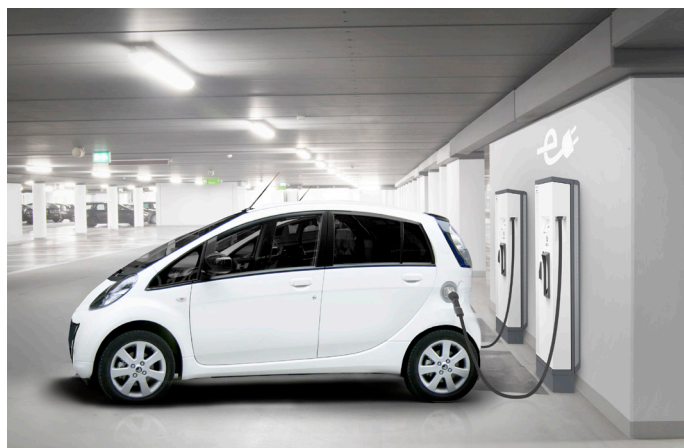


Applications

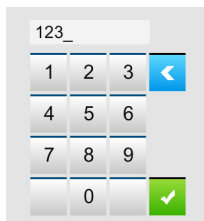
- SME/Company car parking
- Company fleet operators
- (Off street) parking operators
- EV infrastructure service providers
- Roadside meeting places
- Supermarkets & shopping malls

Key optional features

- Pin code authorization system
- RFID authorization system
- Galaxy web-based management software
 - Statistics module with data per user
 - Fleet access management modules
- Special company fleet version
 - 2 integrated AC connections for 8 hour charging during the workday
 - Display DC & AC charging progress
- Remote readable MiD certified AC meter to measure total power usage
- 4.5 meter long cable + easy cable holder
- Billing interface to Parking Management Systems



Terra SC fleet version



PIN code access

Access Terra SC with simple PIN code access for fleets, without the need for smartcards.

Terra SC fleet version

The special fleet version is equipped with 2 AC charge ports which will enable an 8 hour charge during a workday. This convenient feature allows you to connect 3 cars simultaneously and have one single comprehensive charging solution for both fast charging and workday charging.



Galaxy web-based management

Galaxy provides special fleet access management, usage statistics & reporting tools.

Technical specifications Terra SC Fast Charging Station

System

Operating temperature	-30 °C to +45 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	20% to 95%
Environment	Indoor / outdoor
Compliance and safety	CE / CHAdMO

Input

Input voltage range	400 V _{AC} +/-10%
Nominal input current	32A (DC and AC)
Nominal input power	22 kVA
Input frequency	50 Hz
Power factor (full load)	> 0.98
Input over-current protection	Yes
Efficiency	93% at nominal output power

Outputs

Maximum DC output power	20 kW
Maximum DC output current	50 A
Output DC voltage range	180 – 500 V
Output over-current protection	Yes
Output short-circuit protection	Yes

Optional AC Outputs (company fleet version only)

Maximum AC output power	2 x 3.3kW
Maximum AC output current	2x16A
Nominal AC output voltage	230V

General

DC connection standard	CHAdMO
DC cable length	2.9 meter 4.5 meter (optional)
DC plug type	JEVS G105
RFID system	ISO/IEC14443A/B, ISO/IEC15693, FeliCa™ 1, NFC reader mode
Network connection	10/100 Base-T Ethernet GSM/GPRS/3G/EVDO/CDMA
Interface protocol	OCPP
Power consumption	
Idle	<50 VA (nominal)
Climate control	0.1 kW (-20 °C) & 0.3 kW (-35 °C)
Operational noise level	50 dBA
Dimensions (D x W x H)	230 mm x 510 mm x 1830 mm
Mass	140 kg
Protection	IP54

For more information please contact:

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www.abb.com/evcharging

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