

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 30-90 minutes while the EV driver is at the office, in a meeting, at the gym, shopping or eating out. This user-centric approach means that the Terra SC solution offers an easily implemented, high value solution 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, workplace and commercial parking situations. Terra SC is cost effective, designed for quick 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 usage statistics, such as CO2 reduction.

Main features

- Cost effective DC fast charger
- Quick & easy installation
 - Uses widely available 3 x 35A input
 - Smart & ultra thin design
 - Simple floor and wall-mount connections
- Convenient charging time
 - 30 to 90 minute charge time
- Easy to use
 - 8" daylight readable touch screen
- Web-connected & future proof
 - Remote assistance, management and servicing
 - Smart software upgradeability



Applications

- Workplace parking
- Fleet operators
- Parking operators
- Valet services
- EV infrastructure service providers
- Supermarkets and 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
 - Display DC charging progress
- 25 ft max cable length
- Billing interface to Parking Management Systems
- Command and control interface for ABB AC chargers

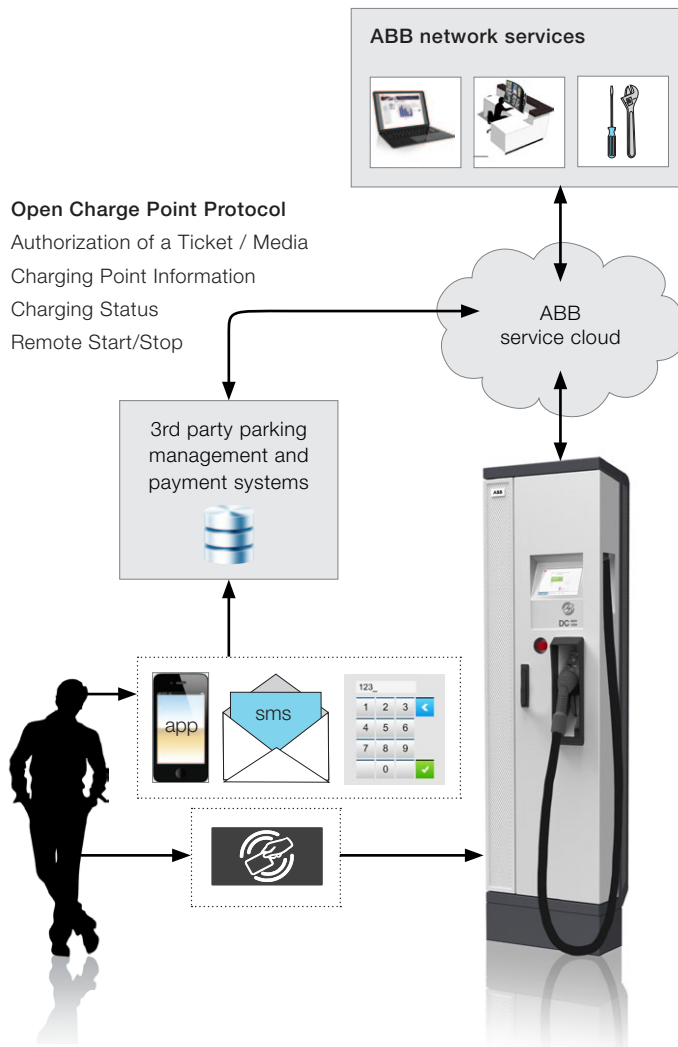


PIN code access

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

Galaxy web-based management

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



Galaxy web based management allows remote monitoring, maintenance and functional upgrades providing customers with the tools necessary to gather customer usage statistics and reports.

Technical specifications Terra SC Fast Charging Station

System	
Operating temperature	-25 °C to +50 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	20% to 95%
Environment	Indoor / outdoor
Compliance and safety	CHAdeMO, UL (pending)
Input	
Input voltage range	480 V _{AC} +/-10%
Nominal input current	35A
Nominal input power	25 kW
Input frequency	60 Hz
Power factor (full load)	> 0.96
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
General	
DC connection standard	CHAdeMO
DC cable length	10 ft 15 ft, 20 ft and 25 ft (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)	10 in x 20 in x 72 in 254 mm x 510 mm x 1830 mm
Weight	310 lbs / 140 kg
Protection	Type 3R

ABB Inc.

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