

Electric Vehicle Charging Infrastructure

Terra Smart Connect Duo fast charging station

The Terra Smart Connect (SC) Duo is an AC/DC dual outlet fast charging station designed to charge an EV in 30-120 minutes. A convenient fast charger, it allows drivers the opportunity to attend a meeting, enjoy shopping, or have a meal while their car is charging. Terra SC Duo is specially designed to offer service providers an easy approach for tapping into the growing EV charging revenue stream.

Designed for commercial park and charge locations, the Terra SC Duo combines profitability with functional design and state-of-the-art technology allowing simultaneous charging of two cars. Seamless integration with several payment & billing platform solutions enable easy and secure payments via smart-phone, parking management terminals, RFID or pin code access. Terra SC Duo's smart connectivity allows remote monitoring, maintenance and functional upgrades providing customers with the tools necessary to gather customer specific usage statistics and reports.

Main features

- Cost effective DC and AC 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
 - Display of DC and AC fast charging progress
 - 3.5 meter cable (approximately) to enable flexible parking
- Web-connected & future proof
 - Remote assistance, management and servicing
 - Smart software upgradeability



Applications

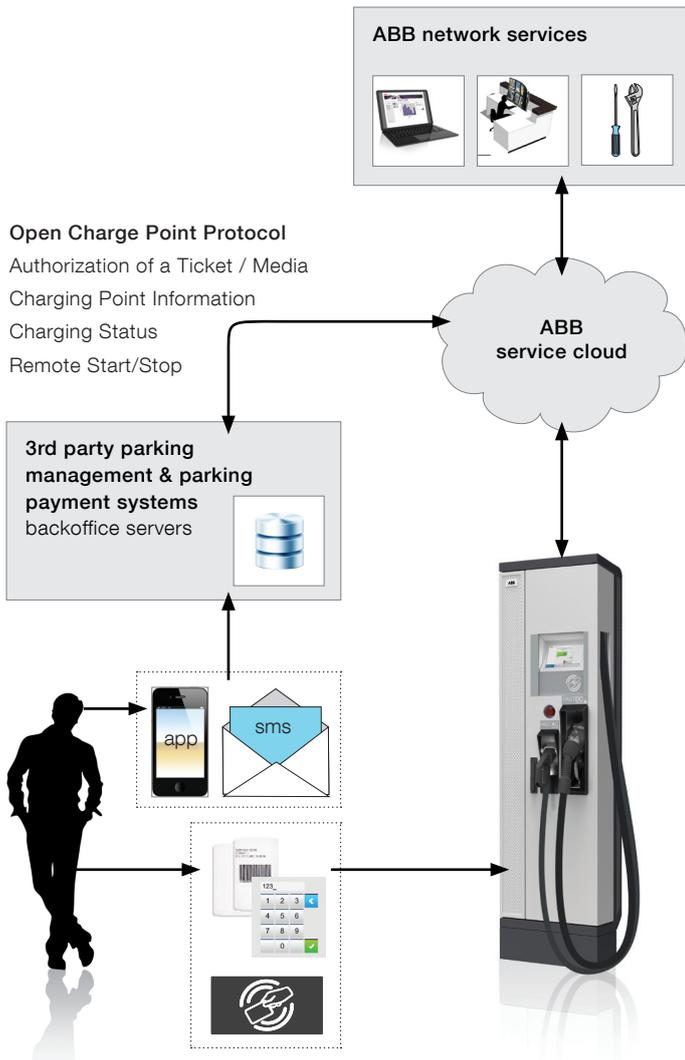
- Roadside meeting places
- Retail locations: supermarkets & shopping malls
- SME/Company car parking
- Parking operators
- EV infrastructure service providers
- EV car rental/sharing

Key optional features

- Pin code authorization system
- RFID authorization system
- Galaxy online management tool
 - Statistics module with data per user via OCPP
- ABB smart simultaneous fast charging
 - Simultaneous fast charging of 2 cars provides shorter waiting times
- AC wallbox/charge post control supports convenient control of 2 external charging connections
- Remote readable MiD certified AC meter to measure total power usage
- Easy cable holder
- Billing interface to parking management systems



The Terra SC Duo offers advertising opportunities at commercially attractive locations.



Galaxy web based management provides secure usage statistics & reporting tools to support a successful commercial or fleet operation.

Technical specifications Terra SC Duo Fast Charging Station

System	
Operating temperature	Standard: 0 °C to +45 °C Optional: -30 °C to +45 °C
Storage temperature	-40 °C to +70 °C
Relative humidity	20% to 95%
Environment	Indoor / outdoor, IP54
Compliance and safety	CE / CHAdeMO
Input	
Input voltage range	400 V _{AC} +/-10%
Rated input current	3 x 32A
Rated input power	22 kVA
Input frequency	50 Hz
(DC) Power factor (full load)	> 0.98
Input over-current protection	Yes
Efficiency	93% at nominal output power
DC Output	
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
AC Output	
Rated AC output power	22 kW
Rated AC output current	3 x 32 A
Nominal AC output voltage	400 V
General	
DC connection standard	CHAdeMO
AC connection standard	EN 61851-1:2010 (Renault & Daimler Smart compatible)
DC plug type	JEVS G105
AC plug type	IEC62196 mode-3 type 2
AC/DC cable length	3.5 meters
Optional: 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)
With climate control	0.1 kW (-20 °C) & 0.3 kW (-35 °C)
Operational noise level	55 dBA
Dimensions (D x W x H)	230 mm x 510 mm x 1830 mm
Mass	145 kg

For more information please contact:

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