

Electric Vehicle Charging Infrastructure

Terra 52 fast charging station

The Terra 52 is a dual outlet (AC/DC) fast charging station. Its multi-protocol design means that the Terra 52 is compatible with all electric vehicles compliant to CHaDeMO or mode 3 charging on the road today and tomorrow. Ideal for use at petrol stations and busy urban areas where dual charging is a must, the Terra 52 meets the unique charging needs of today's EV driver, whether it's for 15 minutes or two hours.

The Terra 52 combines a stylish, rugged design with state-of-the-art technology allowing simultaneous charging of two cars. Its multi-protocol design means the Terra 52 is compatible with all deployed electric vehicle standards including; CHAdeMO, for DC charging, as well as the EN61851-1 standard for AC charging (type 2, mode 3 charging). Seamless integration with several payment & billing platform solutions enable easy and secure payments via smart-phone, petrol station payment terminals and RFID card. Terra 52'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

- AC and DC multi-standard fast charger
 - 30 to 80% in 15-30 minutes
- Web connected & future proof
 - Remote assistance, management and servicing
 - Smart software upgradeability
- Easy to use
 - High resolution display
 - Display of AC & DC progress
 - RFID Authorization
 - MID certified AC meter to measure AC power delivered
- Aesthetic design and all weather stainless steel housing
- Quick and easy installation
- Low operational noise



Applications

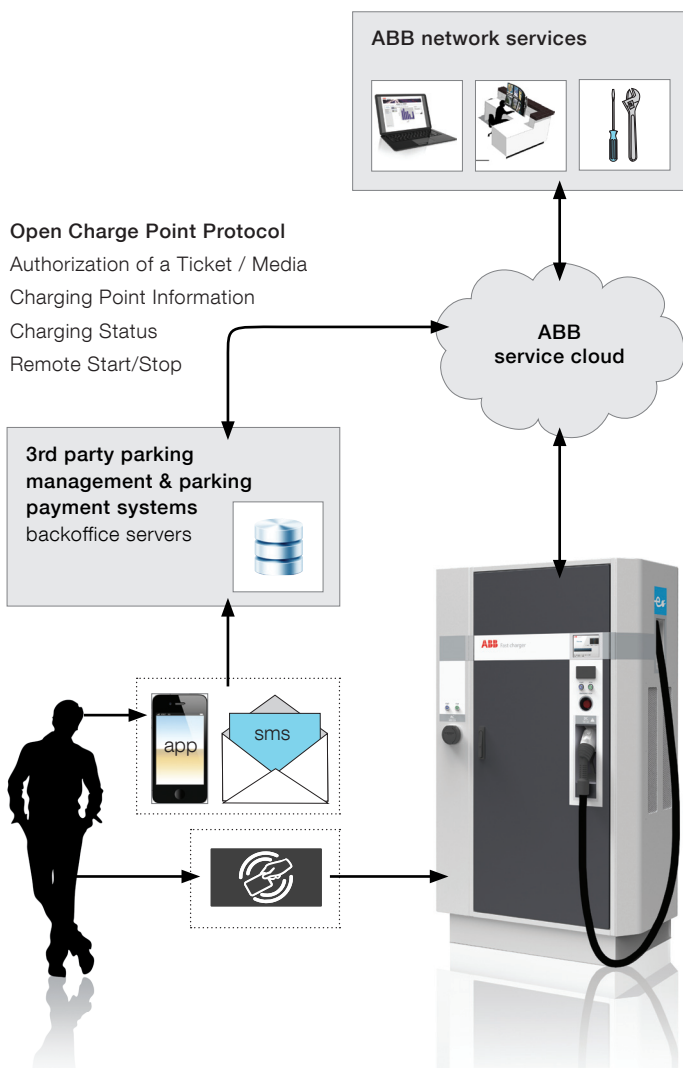
- Highway petrol/service stations operators
- Busy urban areas
- Commercial fleet operators
- EV Infrastructure operators service providers

Optional features

- Simultaneous fast charging of two cars reduces waiting time
- Input power limiting software avoids expensive grid upgrades
- Galaxy web based management software
 - Statistics module with data per user
 - Fleet access management module
- Point of sale, back office integration to enable external billing and payment solutions
- Charger status information for car navigation purposes
- Low temperature support: -30°C to +40°C
- Customized branding possibilities and user interface styling
- Extended cable length to allow placement flexibility



The Terra 52's multi-protocol design meets the charging needs of every EV driver.



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

Technical specifications

System

Type	AC and DC fast charging station
Operating temperature	-10°C to +40°C (standard) -30°C to +40°C (low temp. option)
Storage temperature	-40°C to +70°C
Relative humidity	20% to 95%
Environment	Indoor / outdoor
Compliance and safety	CE / CHAdeMO

Input

AC power connection	3P + N + PE
Input voltage range	400 V _{AC} +/- 10%
Rated input current	85 A (standard) 117 A (simultaneous charging)
Rated input power	55 kVA (standard) 77 kVA (simultaneous charging)
Input frequency	50 Hz or 60 Hz
Power factor (full load)	> 0.98 (Active PFC)
Input over current protection	Yes
Efficiency	> 92% at nominal output power

DC Output

Maximum output power	50 kW
Output voltage range	50 – 500 V _{DC}
Maximum output current	120 A _{DC}
Output over-current protection	Yes

AC Output

Maximum output power	22 kW
Output voltage range	400 V +/- 10%
Maximum output current	32 A
Output over-current protection	Yes

General

DC connection standard	CHAdeMO compliant
DC cable length	2.9 meter
DC plug type	JEVS G105
AC connection standard	EN 61851-1:2010 (Renault/Daimler compatible)
AC plug socket type	IEC62196 mode-3 type-2
RFID system	13.56 MHz, ISO 14443A
Network connection	GSM/UMTS modem 10/100 Base-T Ethernet
Idle power consumption	100 VA (max)
With climate control	1000 VA (max)
Protection	IP54
Operational noise level	< 45 dBA
Dimensions (D x W x H)	600 mm x 1080 mm x 1880 mm
Charge station weight	600 kg

For more information please contact:

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