The Terra 51 Charge Station is an all in one electric vehicle (EV) charging solution. It is an easy to install DC fast charger with output power up to 50 kW.

Terra 51 is compatible with all electric vehicles using the CHAdeMO standard and is the ideal choice when only a single vehicle needs to be charged at any given time. Typical charging times are between 15 and 30 minutes, making the product highly suitable for business and commercial fleet owners, as well as light commercial vehicle fleet owners and utility infrastructure suppliers. Due to its aesthetic design and low noise level during charging, the Terra 51 can be installed centrally in fleet yards, filling stations or in public installations.

Main features
- DC fast charger
- 50 kW DC charging
- Fastest charging possible: 30 to 80% in 15 minutes
- Web connected & future proof
  - Remote assistance, management and servicing
  - Smart software upgradeability
- Easy to use
  - High resolution display
  - Display of DC charging progress
  - RFID Authorization
- Aesthetic design and powder coated corrosion resistant
  - Type 3R enclosure
- Quick and easy installation
- Low operational noise

Applications
- Highway fuel station operators
- Busy urban areas
- Commercial fleet operators
- EV Infrastructure operators
- EV Charging service providers

Optional features
- Input power limiting software avoids expensive grid upgrades
- Point of sale, back office integration to enable external billing and payment solutions
- Galaxy web based management software
- Statistics module with data per user
- Fleet access management module
- Traffic generation via real-time upload to navigation providers
- Low temperature support: -35 °C to +40 °C
- Customized branding possibilities and user interface styling
- Extended cable length to allow placement flexibility
## Technical specifications

### System
- **Type**: Single DC fast-charging station
- **Operating temperature**: -10°C to +40°C
- **Storage temperature**: -40°C to +70°C
- **Relative humidity**: 20% to 95%
- **Environment**: Indoor / outdoor
- **Compliance and safety**: UL / CHAdeMO

### Input
- **AC power connection**: 3P + PE
- **Input voltage range**: 480 V AC +/- 10%
- **Nominal input voltage**: 480 V AC
- **Nominal input current**: 70 A
  - 32 A – 70 A (Software limit option)
- **Nominal input power**: 55 kVA
  - 22 kVA – 55 kVA (Software limit opt.)
- **Input frequency**: 60 Hz
- **Power factor (full load)**: > 0.98
- **Input over-current protection**: Yes
- **Efficiency**: > 92% at nominal output power

### Output
- **Maximum output power**: 50 kW
- **Maximum output current**: 120 A
- **Output voltage range**: 50 – 500 V
- **Output over-current protection**: Yes
- **Output short-circuit protection**: Yes

### General
- **DC connection standard**: CHAdeMO compliant
- **DC cable length**: 15 ft std; other lengths upon request
- **DC plug type**: JEVS G105
- **RFID system**: 13.56 MHz, ISO 14443A
- **Network connection**: GSM / UMTS modem
- **10/100 Base-T Ethernet**
- **Standby power consumption**
  - **Idle**: 100 VA (nominal)
  - **Climate control**: 1000 VA (max)
- **Protection**: Type 3R
- **Operational noise level**: < 45 dBA
- **Dimensions (D x W x H)**
  - **Charge station**: 23” x 38” x 78”
  - **600 mm x 960 mm x 2000 mm**
- **Weight**
  - **Charge station**: 880 lbs / 400 kg

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**ABB network services**
- **Open Charge Point Protocol**
- **Authorization of a Ticket / Media**
- **Charging Point Information**
- **Charging Status**
- **Remote Start/Stop**

**3rd party parking management & parking payment systems**
- **Backoffice servers**

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