Electric Vehicle Charging Infrastructure
Terra 100.2 Base Station

The Terra 100.2 Base Station is a web-connected, intelligent, DC fast-charging system with 50 kW's of power per output. It is compatible with all electric vehicles using the CHAdeMO standard and is the ideal choice when multiple vehicles need to be charged simultaneously.

In combination with the Terra Charge Post, the Terra 100.2 can be used to charge two vehicles at the same time. Typical charging times are between 15 and 30 minutes. Designed to be future proof, the built-in intelligence is updateable via the web and ready for future network developments. The optional software controlled power-limiting feature allows the base station to match grid capacity if full input power is not available. The Terra 100.2 Base Station has been designed for easy installation and can be positioned out of sight up to 20 meters from a Terra Charge Post. Supplied with an unobtrusive IP54 outdoor housing and an ultra quiet integrated airflow cooling system, it is suitable for installation at all kinds of premises, including car parks, shopping malls and other service areas.

Main features
– Incorporates 2 outputs
– Charge 2 cars simultaneously
– Web-connected
– Power Routing enabled
– Quick and easy to install
– Future proof
– Easy maintenance

Applications
– Infrastructure suppliers (e.g. utility companies)
– Service-station forecourts
– Shopping malls
– Commercial and private car parks
– Light commercial fleets (e.g. delivery vans)

Key features
– DC Charging standard: CHAdeMO
– Compatibility: Terra Charge Post
– Installed charging power: 100 kW
– Redundant power system design
– Powder coated stainless steel housing
– Connections
  - Two 50 kW_{max} CHAdeMO compliant DC outputs
 - 400 V_{AC} utility connection

Optional features
– Input power limiting software
– Galaxy online site management tool
– Point Of Sale + Back Office integration
– Navigation system link
– Charged kWh measurement
– Low temperature operating range
– Customized branding possibilities
– GSM/UMTS connectivity

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Power Routing –
Intelligent connected charging

ABB complements its fast charging solutions with web-based control, management and maintenance systems. All Terra chargers are connected to the Power Routing network. ABB provides a suite of APIs, which enables the Terra chargers to interface to 3rd party billing servers, fleet management systems, smart grids or demand-response applications, via the Power Routing network.

ABB also offers the Galaxy online management tool. This user-friendly web application allows a charging infrastructure operator to access status information and statistics from the Terra chargers at their sites, including kWh consumption and session statistics on a daily, weekly, or monthly basis. Additionally, an operator can use the Galaxy tool to configure chargers and sites according to their preferences.

ABB's Power Routing network is a robust IT backbone operated by ABB's service center to provide support, software updates and upgrades, remote maintenance, servicing and monitoring of Terra chargers. The Power Routing network ensures the best possible uptime and performance for your charging infrastructure.
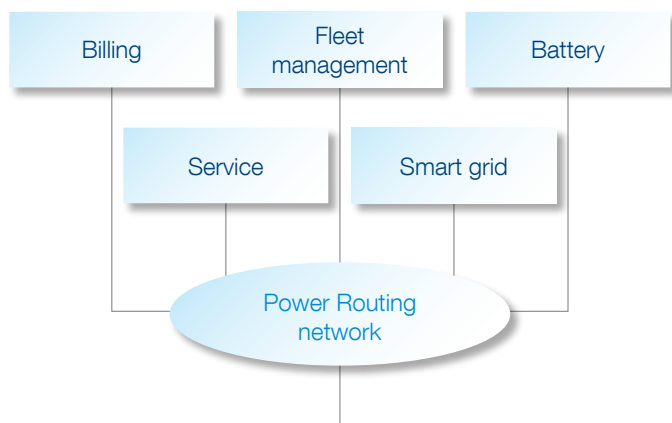
Technical specifications

System	
Type	Dual DC fast-charging base station
Operating temperature	-10ºC to +40ºC
	-30ºC to +40ºC (Low temp. option)
Storage temperature	-40ºC to +70ºC
Relative humidity	20% to 95%
Environment	Indoor / outdoor
Compliance and safety	CE / CHAdeMO

Input	
AC power connection	3P + PE
Input voltage range	400 V_{AC} +/-10%
Nominal input voltage	400 V_{AC}
Nominal input current	160 A
	80 A – 160 A (Software limit option)
Nominal input power	110 kVA
	55 kVA – 110 kVA (Software limit option)
Input frequency	50 Hz
Power factor (full load)	> 0.98
Input over-current protection	Yes
Efficiency	> 92% at nominal output power

Output	
Number of outputs	2
Maximum output power	50 kW
Maximum output current	120 A_{DC}
Output voltage range	50 – 500 V_{DC}
Output over-current protection	Yes
Output short-circuit protection	Yes

General	
Operational noise level	< 45 dBA
Protection	IP54
Network connection	GSM / UMTS modem
	10/100 Base-T Ethernet
Power consumption	
Idle	100 VA (nominal)
Climate control	1000 VA (max)
Dimensions (D x W x H)	600 mm x 1970 mm x 1898 mm
Weight	800 kg

Billing

Fleet management

Battery

Service

Smart grid

Power Routing network

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