PRODUCT LEAFLET

Terra DC fast chargers

Terra 124/184 CE Gen 2



The Terra all-in-one DC fast charger offers power up to 180 kW, with convenient charging times for every EV – including those with HV batteries.

The compact, modular design makes it perfect for retail, highway or fleet use, with power sharing to further optimize utilization. All Terra chargers feature connectivity for remote services and OCPP enablement.

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The Terra 124/184 is available as shown above in CCS-single, CCS-dual and CCS-dual with AC socket.

Cable management options are strongly recommended for enhanced reliability and usability.

Flexible configuration
Terra DC fast chargers with power up to 180 kW are designed for the most compact, reliable and future-proof demands. In addition to a range of power selections, Terra chargers can be configured with in single or dual outlet format. Cable management, payment enablement and connectivity choices also offer owners, operators and site hosts options tailored to the needs of every charging site, from public to fleet needs.

Always connected
Enabling remote services, updates and upgrades. ISO 15118 enabled and designed for quick installation and fast serviceability. Pre-integrated with OCPP networks, payment platforms and energy management APIs. Customizable user interface.

The most reliable, scalable choice
ABB E-mobility's Terra chargers offer a redundant power architecture for the highest uptime in the EV infrastructure industry. These chargers can meet the needs of high voltage BEVs up to 920V, making these systems fully compatible with all current and future EVs. With a host of configuration options, Terra DC fast chargers are ready to support EV market growth over time.

Power sharing for high utilization
Business model enablement and high utilization are critical to successful EV charging infrastructure programs. With this goal in mind, ABB E-mobility has designed the Terra 124 and Terra 184 models with power sharing technology for charging two vehicles at the same time.

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Terra "all in one" chargers are offered from up to 180 kW.

The Terra 124 and 184 models can charge two vehicles at the same time.



Terra 124
one EV
up to
120 kW



Terra 124
two EVs
each up to
60 kW



Terra 184
one EV
up to
180 kW



Terra 184
two EVs
each up to
90 kW

Terra 184 CE
Technical specifications

	Terra 184C	Terra 184CC	Terra 184CCT
Connector			
Number of outputs	1	2	3
Number of EV served	One	Up to two EV in parallel	Up to three EV in parallel
Output configurations	CCS 2	CCS 2 / CCS 2	CCS 2 / CCS 2 / AC socket
Cable type	Air cooled		
Cable Length	Standard: 5 m +/- 10% (further options available)		
Efficiency	> 95% (peak)		
DC output			
DC output power	Maximum 180 kW		
DC output voltage	CCS: 150 - 920 V		
DC output current	Nominal 300 A - Peak 400 A		
AC output			
AC output power	N/A		22kW
AC output voltage			400 V +/- 10%
AC output current			32A
AC intput			
Input connection	3 Phases + N + PE		
Input voltage	400 V +/- 10%		
Rated frequency	50 Hz +/- 5 Hz		
Rated Current	280 A		312 A
Rated power	192 kVA		215 kVA
Power Factor	>0.98 (at full power)		
Harmonic Distortion (THDi)	< 4.5%		
Earthing systems	TN-S, TN-C, TN-C-S, TT (with upstream RCD)		
SPD	Type 2		
Overvoltage category	III		
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection		
SCCR	25 kA		
Mechanical			
Dimensions (H x W x D)	1900 x 880 x 565 mm		
Mounting Type	Floor mounted		
Weigth	395 kg		
IK rating	IK10 (HMI: IK08)		
Environmental			
Stand-by power	P=50W / S=120VA		
IP rating	IP54		
Enclosure Type	Indoor and outdoor		
Maximum operating altitude	Up to 2000 m		
Temperature range	-35 °C to +50 °C (de-rating characteristic applies from 40 °C)		
Operating humidity	5-95 % Rh non-condensing		
Noise level	< 65 dB(A) at 1m distance @25° C		
Interface			
Screen Type	7" LCD Touchcscreen		
Languages	Standard Language English (Others available via Software upgrade)		
Cellular communication	GSM / 4G / LTE		
Communication Protocol	Open Charger Point Protocol (OCPP) 1.6 (and previous versions)		
Authentication methods	RFID (Standards, Cards..), On-screen PIN code authorization. Option: payment terminal; Prepared for ISO 15118 - 2 PnC		
RFID system	Mifare ISO 14443 A+ B to part 4 and ISO/IEC 15693 Others available on request (NFC, Calypso, Ultralight, PayPass, HID; and more)		
Energy metering	Eichrecht/PTB and MID compliancy for AC and DC outlets		
Standards and certification			
Declaration of Conformity	CE		
Low voltage Directive	EN IEC 61851-1:2019, EN IEC 61851-23: 2014/AC: 2016, EN IEC 62311:2020		
EMC	Class A according to: EN IEC 61000-6-1: 2007, EN IEC 61000-6-2: 2019, EN 61000-6-3:2007+A1: 2011, EN 61000-6-4:2007+A1: 2011, IEC 61851-21-2:2018, ETSI EN 301 489-1 v2.2.0: 2017		
RED	EN 300 330 V2.1.1: 2017, EN 301 908-13 V13.2.1: 2022, EN 50364: 2020, EN 62311: 2020, EN 301 908-2 V11.1.2: 2017		
Additional standards	IEC 62196-2, IEC 62196-3		

Terra 124 CE
Technical specifications

	Terra 124C	Terra 124CC	Terra 124CCT
Connector			
Number of outputs	1	2	3
Number of EV served	One	Up to two EV in parallel	Up to three EV in parallel
Output configurations	CCS 2	CCS 2 / CCS 2	CCS 2 / CCS 2 / AC socket
Cable type	Air cooled		
Cable Length	Standard: 5 m +/- 10% (further options available)		
Efficiency	> 95% (peak)		
DC output			
DC output power	Maximum 120 kW		
DC output voltage	CCS: 150 - 920 V		
DC output current	Nominal 300 A - Peak 400 A		
AC output			
AC output power	N/A		22kW
AC output voltage			400 V +/- 10%
AC output current			32A
AC intput			
Input connection	3 Phases + N + PE		
Input voltage	400 V +/- 10%		
Rated frequency	50 Hz +/- 5 Hz		
Rated Current	187 A		220 A
Rated power	128 kVA		152 kVA
Power Factor	>0.98 (at full power)		
Harmonic Distortion (THDi)	< 4.5%		
Earthing systems	TN-S, TN-C, TN-C-S, TT (with upstream RCD)		
SPD	Type 2		
Overvoltage category	III		
SCCR	25 kA		
Mechanical			
Dimensions (H x W x D)	1900 x 880 x 565 mm		
Mounting Type	Floor mounted		
Weigth	365 kg		
Enclosure type	Stainless steel 430 and Aluminium		
IK rating	IK10 (HMI: IK08)		
Environmental			
Stand-by power	P=50W / S=120VA		
IP rating	IP54		
Maximum operating altitude	Up to 2000 m		
Temperature range	-35 °C to +50 °C (de-rating characteristic applies from 40 °C)		
Operating humidity	5-95 % Rh non-condensing		
Noise level	< 65 dB(A) at 1m distance @25° C		
Interface			
Screen Type	7" LCD Touchcscreen		
Languages	Standard Language English (Others available via Software upgrade)		
Cellular communication	GSM / 4G / LTE		
Communication Protocol	Open Charger Point Protocol (OCPP) 1.6 (and previous versions)		
Authentication methods	RFID (Standards, Cards..), On-screen PIN code authorization. Option: payment terminal; Prepared for ISO 15118 - 2 PnC		
RFID system	Mifare ISO 14443 A+ B to part 4 and ISO/IEC 15693, others available on request (NFC, Calypso, Ultralight, PayPass; and more)		
Energy metering	Eichrecht/PTB and MID compliancy for AC and DC outlets		
Standards and certification			
Declaration of Conformity	CE		
Low voltage Directive	EN IEC 61851-1:2019, EN IEC 61851-23: 2014/AC: 2016, EN IEC 62311:2020		
EMC	Class A according to: EN IEC 61000-6-1: 2007, EN IEC 61000-6-2: 2019, EN 61000-6-3:2007+A1: 2011, EN 61000-6-4:2007+A1: 2011, IEC 61851-21-2:2018, ETSI EN 301 489-1 v2.2.0: 2017		
RED	EN 300 330 V2.1.1: 2017, EN 301 908-13 V13.2.1: 2022, EN 50364: 2020, EN 62311: 2020, EN 301 908-2 V11.1.2: 2017		
Additional standards	IEC 62196-2, IEC 62196-3		

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