

Product Name : DC50 Quick Charger
Category : DC Charger
Sub-category : Public Charging Solution
Brand Name : EVBox
Origin : France
Description :

DC's secure and user-friendly design makes it accessible and applicable anywhere, by any electric car. On top of that, its smart power management capabilities will always ensure the cost-effective and energy-efficient management of multiple units. Fast, flexible, and reliable—DC sets a whole new standard for fast charging stations.

Reasons to Believe :

1. DC charges fast to save time

Equipped with a power(ful) output between 50 - 350 kW, our fast chargers can charge up to 125 km in 30 mins (50 kW), and up to 400 km in just 15 mins (350 kW).

2. DC operates everywhere

Thanks to its flexible architecture, DC fits well into any type of space and is suitable for every use case around the world.

3. DC is made to last

With its unique auto-retractable cables, rugged high-impact housing, advanced heating system, and high-quality power electronic components, DC is fully reliable and made to last.

4. DC consumes power efficiently

From grid connection cost savings via the optional battery storage to smart queuing capabilities, DC knows how to consume the available power efficiently.

5. DC goes ultra-fast

DC offers ultra-fast charging with a powerful output of 175 kW up to 350 kW. Meanwhile, DC ensures an exceptional user experience thanks to its ergonomic auto-retractable cables, flexible architecture, and high quality components.

Features

: Detailed as below

- **50-350 kW fast charging capacity**

DC is equipped with a power(ful) output between 50–350 kW. This allows DC to charge up to 125 km in 30 mins (50 kW), and up to 400 km in just 15 mins (350 kW).

- **Flexible architecture**

DC is available in multiple setups: a stand-alone Quick Charger, a Power Unit with a User Unit, or a combination of all three. DC's flexible architecture makes it compatible for every use case across the world.

- **Universally compatible**

DC is equipped with three cables featuring CHAdeMo, CCS 2, and AC Type 2 plugs. This makes DC compatible with every (future) electric car on the market.

- **Tariff settings**

DC allows you to set your own tariffs (including transaction fee, kWh tariff, and time tariff) based on your business model.

- **Roaming**

DC uses the OCPP 1.6 communication standard and is open to roaming. This means DC works with charge cards from various eMobility Service Providers.

- **Utility power cabinet**

DC is equipped with a utility meter cabinet, which allows the energy meter and electrical protections to be installed safely inside the charging station. This doesn't require any additional space and eliminates the cost of an auxiliary electrical cabinet.

- **Easy transportation, installation, and maintenance**

DC's modular and durable components make it easy to transport, install, and maintain. That's why DC fits well into any type of (existing) layout—even in compact spaces.

- **Advanced cooling and heating system**

DC maintains optimal performance even in extreme weather conditions without requiring any additional accessories.

- **3-year warranty**

DC offers a 3-year warranty, providing you with peace of mind.

- **Smart queuing**

DC uses smart queuing to manage multiple cars that are fast charging by considering each car's departure time, arrival time, available power, and requested power. DC can charge two cars simultaneously: one at AC, and the other at DC.

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- **Color touchscreen with 4 languages**

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- **Optional battery storage**

DC can be equipped with an optional battery storage of 15 kW, which helps you avoid extra grid connection and installation fees.

Specs

: Detailed as below

General Specifications	
Charging modes	
Mode 4 (DC charging)	CHAdeMO; CCS2 up to 500 V / 120 A
Mode 3 (AC charging)	Up to 43 kW / 63 A or limited up to 22 kW / 32
Mode 2 (AC charging)	Up to 2.3 kW / 10 A
Connector type	
Mode 4	JEVS G105 (CHAdeMO), CCS2
Mode 3	Type 2 attached cable (43 kW), Type 2 socket (22 kW)
Mode 2	Type E/F socket
Cable length	
Mode 4	3.95 m with auto-retractable cable
Mode 3	3.95 m with auto-retractable cable

Mode 2	---
Structure and physical properties	
Enclosure material	Galvanized steel (structure), aluminum (casing), stainless steel (feet)
Enclosure ratings	IP54 / IK10
Ambient temperature	-30°C to +50°C
Storage temperature	-40°C to +70°C
Operating humidity	5% to 95% non-condensing
Enclosure fire ratings	M3 (NF P 92-501)
Cooling Mounting	Forced ventilation
method Maximum	Floor / Ground (recommended with the optional clamping-sealing kit)
installation height	< 2000 m
Dimension (W x H x D) and weight*	
Quick Charger 50 kW	765 x 1920 x 465 mm / 340 kg (Mono-standard) 820 x 1920 x 465 mm / 345 kg (Bi-standard) 920 x 1920 x 465 mm / 350 kg (Tri-standard)
User Unit 125 A	331 x 1895 x 467 mm / 85 kg (Mono-standard) 421 x 1895 x 467 mm / 90 kg (Bi-standard) 513 x 1895 x 467 mm / 95 kg (Tri-standard)
Power Unit 125 A	705 x 1904 x 465 mm / 330 kg
Connectivity	
Authorization Status	RFID/NFC (ISO 14443, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, -Classic, -Desfire)
indication / HMI	2 beacon RGB LED Indicators / 7" anti-vandalism LCD touch screen
Communication standard	GPRS/3G modem and Ethernet
Communication protocol	OCPP 1.5 S, 1.6 S and 1.6 J
Positioning	GPS
Certifications	
Certifications	CE, EN/IEC 61851-1, EN/IEC 61851-21, EN/IEC 61851-22, EN/IEC 61851-23, EN/IEC 62056, EN/IEC 62196-1, EN/IEC 62196-2, EN/IEC 62305-4, EN/IEC 60950, Low Voltage Directive 2014/35/EU, DIN 70121, ISO15118, CHAdemo, EV/ZE-Ready, EDF HN 64-S-41, EDF HN 64-S-43, EDF HN 64-S-52, UTE C 12.101, UTE C15.100, UTE C15.103, UTE C15.106, UTE C15.107, EN/IEC 61000 (Class B), EN/IEC 61000-2-2, EN/IEC 61000-3-2, EN/IEC 61000-3-12, EN/IEC 61000-4-2, EN/IEC 61000-4-3, EN/IEC 61000-4-4, EMI compliance EN/IEC 61000-4-5, EN/IEC 61000-4-11, CISPR 16-2-1, CISPR 16-2-3, CISPR 22, EMC Directive 2014/30/EU

*The weight can be increased depending of the battery modules installed. (+ 45 kg 2 modules; + 55 kg 3 modules; + 65 kg 4 modules; + 85 kg 6 modules)

Electrical properties	
AC input	
Voltage range	400 VAC +/- 10%
Number of phases	3 P + N + PE
Frequency	50 Hz
Required power supply capacity	54 kVA (36 kVA with battery storage)
Nominal input current	77 A (60 A with battery storage)
Power factor	> 0.99
Efficiency	95%
Grounding system	IT, TT or TN-S
Stand-by power consumption	100 W + 40 W
DC output	
Output power	50 kW
Output voltage range	50 VDC – 500 VDC
Output current range	1 A – 120 A
AC output (mode 3)	
Output power	43 kW with attached cable / 22 kW with socket outlet
Output voltage range	400 VAC +/- 10%
Maximum output current	63 A with attached cable / 32 A with socket outlet
AC output (mode 2) **	
Output power	2.3 kW
Output voltage range	230 VAC +/- 10%
Maximum output current	10 A
Electrical protections	
Internal electrical protections	RCBO 30 mA Type A, RCD 30 mA Type A + 6 mA detection, MCB curve C/D
Required circuit breaker upstream	MCB Curve D, 100 A & RCD 300 mA, Type A, HI, (S)
Comparison	

Models	CHA	CCS	CCS + CHA	CCS + T2 CABLE	CHA + T2 CABLE	CCS + CHA + T2 CABLE	CCS + CHA + T2 SOCKET
Required power supply capacity	54 kVA	54 kVA	54 kVA	54 kVA	54 kVA	54 kVA	54 kVA
Nominal AC input current	77 A	77 A	77 A	77 A	77 A	77 A	77 A
Maximum output power	DC: 50 kW	DC: 50 kW	DC: 50 kW	DC: 50 kW AC: 43 kW	DC: 50 kW AC: 43 kW	DC: 50 kW AC: 43 kW	DC: 50 kW AC: 22 kW
Maximum output current	DC: 120 A	DC: 120 A	DC: 120 A	DC: 120 A AC: 63 A	DC: 120 A AC: 63 A	DC: 120 A AC: 63 A	DC: 120 A AC: 32 A
Output voltage range	DC: 50 - 500 V	DC: 50 - 500 V	DC: 50 - 500 V	DC: 50 - 500 V	DC: 50 - 500 V	DC: 50 - 500 V	DC: 50 - 500 V
Number of plugs	1	1	2	2	2	3	3
Connections	JEVS G105	CCS2	CCS2 - JEVS G105	CCS2 Type 2 cable	JEVS G105 Type 2 cable	CCS2 - JEVS G105 Type 2 cable	CCS2 - JEVS G105 Type 2 socket
							
QuickCharger 50 kW	✓	✓	✓	✓	✓	✓	✓
QC + 1 x UU	✓	✓	✓	✓	✓	✓	✓
PU + 1 x UU	✓	✓	✓	—	—	✓	—

** Only available for Quick Charger as an option.

Pictures:







