DC



fast charging solution

50 kW

Charges up to 125 km in just 30 minutes

Flexible architecture and universally compatible in every space and use case Made to last with auto-retractable cables, high quality power electronic components, and more

Consumes power efficiently with smart queuing and battery storage options



Color touchscreen with 4 languages

Optional battery storage





Product portfolio

EVB©X

DC QuickCharger 50 kW (QC)

- · Works as a standalone charger or as a power unit
- AC & DC charging connectors are included in the housing
- Can charge AC and DC simultaneously
- Has an AC / DC converter
- Includes AC and DC controllers
- Has independent AC and DC electrical protections



User Unit 125 A (UU)

- · Must be connected to a QuickCharger
- · AC & DC charging connectors are included in the housing
- · Can charge AC and DC simultaneously
- . Does not have an AC / DC converter
- · Includes only an AC controller



Product combinations

QuickCharger Standalone*

- Ideal for places that allowing short parking times (around 30 min.)
- Has the biggest customization surface
- · Requires minimum installation work



(QuickCharger + 1 x User Unit) **

- Ideal combination for longer parking times (>1 hour)
- · Allows for easy parking and plug handling
- More connectors are available
- If a connector has an error, the user has a second option, enabling a continuous service
- Smart queuing for AC and DC can be used



^{*} When only 1 car is connected, charger provides the maximum required power, when 2 cars are connected (one in AC and another in DC) the charger splits the maximum output power between 2 cars. ** Only 1 DC car can be charged at one time, even though there is more than one DC connector. Queuing is available in AC and CHAdeMO. Maximum 2 User Unit can be used per OutchCharger.

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 A 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 -40°C to +70°C Storage temperature Operating humidity 5% to 95% non-condensing **Enclosure fire ratings** M3 (NF P 92-501) Forced ventilation Cooling Mounting method Floor / Ground (recommended with the optional clamping-sealing kit)

< 2000 m

Maximum installation height

Dimension (W x H x D) and weight*

765 x 1920 x 465 mm / 340 kg (Mono-standard) QuickCharger 50 kW 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)

Connectivity Authorization

Status indication / HMI Communication standard

Communication protocol

Positioning

Certifications

RFID/NFC (ISO 14443, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, -Classic, -Desfire)

2 beacon RGB LED Indicators / 7" anti-vandalism LCD touch screen GPRS/3G modem and Ethernet

OCPP 1.5 S, 1.6 S and 1.6 J

CE, EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU, EN/ IEC 61851-1, EN/IEC 61851-21-2, EN/IEC 61851-22, EN/IEC 61851-23, DIN 70121, ISO15118, CHAdeMO, EV/ZE-Ready

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

Electrical properties



QuickCharger 50 kW

AC input

 $\begin{array}{lll} \mbox{Voltage range} & 400 \mbox{ VAC +/- }10\% \\ \mbox{Number of phases} & 3 \mbox{ P + N + PE} \end{array}$

Frequency 50 Hz

Required power supply capacity Nominal input current54 kVA (36 kVA with battery storage)
77 A (60 A with battery storage)

 Power factor
 > 0.99

 Efficiency
 95%

 Grounding system
 IT, TT or TN-S

DC output

Output power 50 kW

 Output voltage range
 50 VDC – 500 VDC

 Output current range
 1 A – 120 A

AC output (mode 3)

Stand-by power consumption

Output power 43 kW with attached cable / 22 kW with socket outlet
Output voltage range 400 VAC +/- 10%

100 W + 40 W

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)

Models	СНА	ccs	CCS + CHA	CCS + CHA + T2 CABLE	CCS + CHA + T2 SOCKE
Required power supply capacity	54 kVA	54 kVA	54 kVA	54 kVA	54 kVA
Nominal AC input current	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: 22 kW
Maximum output current	DC: 120 A	DC: 120 A	DC: 120 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
Number of plugs	1	1	2	3	3
Connections	JEVS G105	CCS2	CCS2 - JEVS G105	CCS2 - JEVS G105 Type 2 cable	CCS2 - JEVS G105 Type 2 socke
	(3)	2	20	2 *	2⊕∰
QuickCharger 50 kW	~	~	~	~	~
QC + 1 x UU	~	~	~	✓	~

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