

EVBox Ultroniq

ultra fast charging solution



Charges up to 400 km in less than 15 mins (350 kW)














Equipped with a power output of 175 kW up to 350 kW, and provides up to 500 A continuously (can also provide 360 A to two cars simultaneously)

Provides an exceptional user experience with ergonomic, 4.5 m auto-retractable cables

Scalable thanks to its flexible architecture, evolves easily with the market,

and safeguards your investment

Fully reliable and made to last with cooling unit, liquid cooled cables, and rugged high-impact housing

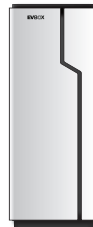
-  175–350 kW fast charging capacity
-  Anti-glare, color touchscreen with 4 languages
-  Flexible architecture
-  Tariff settings
-  Universally compatible
-  Roaming
-  Auto-retractable cables
-  Easy transportation, installation and maintenance
-  Advanced cooling and heating system
-  Remote maintenance
-  3-year warranty
-  Liquid cooled cable
-  Smart charging capable

evbox.com



EVBox Ultroniq Power Unit 375 A (PU)

- This station does not include any charging connectors
- This station must be connected to a EVBox Ultroniq User Unit
- Equipped with an AC / DC converter
- Equipped with a DC controller
- Equipped with integrated energy meters
- Equipped with independent AC and DC electrical protections



EVBox Ultroniq User Unit 200 A (UU)

- Up to 175 kW / 950 V
- This station must be connected to a EVBox Ultroniq Power Unit
- Includes a charging connector
- Does not include an AC / DC converter
- Equipped with an HMI controller
- Equipped with a dry cable
- Available with both CCS2 and CHAdeMO connectors



EVBox Ultroniq User Unit 500 A (UU)

- Up to 350 kW / 950 V
- This station must be connected to a EVBox Ultroniq Power Unit
- Includes a charging connector
- Does not include an AC / DC converter
- Equipped with an HMI controller
- Equipped with a part of the pumping system for cooled cable (the other part of the pumping system is included in the cooling system)
- Equipped with a cooled cable
- Available with both CCS2 and CHAdeMO connectors



Cooling Unit (CU)

- This unit is used to cool down charging cables when the current is higher than 200 A
- This unit can be connected to two EVBox Ultroniq User Units



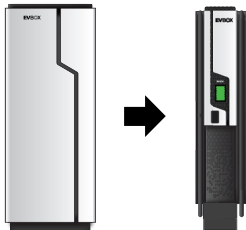
Product configurations



Configuration A

1 x EVBox Ultroniq Power Unit 375 A + EVBox Ultroniq User Unit 200 A*

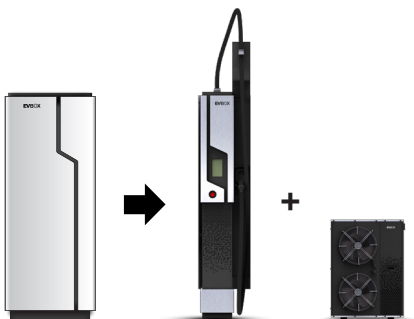
EVBox Ultroniq 175 kW / 200 A



Configuration B

1 x EVBox Ultroniq Power Unit 375 A + EVBox Ultroniq User Unit 500 A**

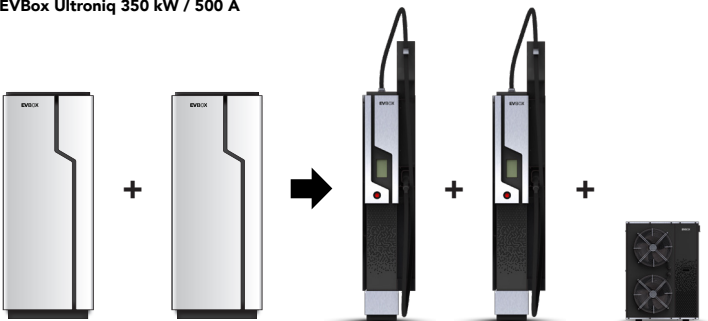
EVBox Ultroniq 175 kW / 375 A



Configuration C

2 x EVBox Ultroniq Power Unit 375 A + EVBox Ultroniq User Unit 500 A***

EVBox Ultroniq 350 kW / 500 A



More configurations are available thanks to the flexible architecture.

*One PU 375 A together with a UU 200 A will provide up to 950 V / 200 A / 175 kW. This means the charger can deliver up to 175 kW to cars with a 950 V battery and 100 kW to cars with a 500 V battery. ** One PU 375 A together with a UU 500 A and a Cooling Unit will provide up to 950 V / 375 A / 175 kW. This means the charger can deliver up to 175 kW to cars with a 500 V or 950 V battery. ***Combining two PU 375 A together with a UU 500 A and a Cooling Unit will provide up to 950 V / 500 A / 350 kW. This means the charger can deliver up to 350 kW to cars with a 950 V battery and 250 kW to cars with a 500 V battery. By having 2 UU 500 A, two cars can charge simultaneously at 175 kW with CCS2 (375 A).

General specifications



Charging modes

Mode 4 (DC charging)

CHAdeMO up to 500 V / 200 A / 100 kW
CCS2 up to 950 V / 200 A / 175 kW
CCS2 up to 950 V / 375 A / 175 kW
CCS2 up to 950 V / 500 A / 350 kW

Connector type

Mode 4

CCS2 and CHAdeMO dry cable (UU 200)
CCS2 and CHAdeMO cooled cable (UU 500)

Cable length

Mode 4

4.5 m with auto-retractable cable

Structure and physical properties

Enclosure material

Enclosure ratings

Ambient temperature

Storage temperature

Operating humidity

Enclosure fire ratings

Cooling

Mounting method

Maximum installation height

Galvanized steel (structure), aluminum (casing), stainless steel (feet)
IP54 / IK10
-30°C to +50°C
-40°C to +70°C
5% to 95% non-condensing
M3 (NF P 92-501)
Forced ventilation
Floor / Ground (optional with clamping-sealing kit)
< 2000 m

Dimension and weight - W x H x D

EVBox Ultroniq Power Unit 375 A

EVBox Ultroniq User Unit 200 A

EVBox Ultroniq User Unit 500 A

Cooling Unit

705 x 1920 x 930 mm / 1260 kg
331 x 1895 x 467 mm / 88 kg
825 x 1920 x 465 mm / 250 kg
900 x 940 x 370 mm / 75 kg

Connectivity

Authorization

Status indication / HMI

Communication standard

Communication protocol

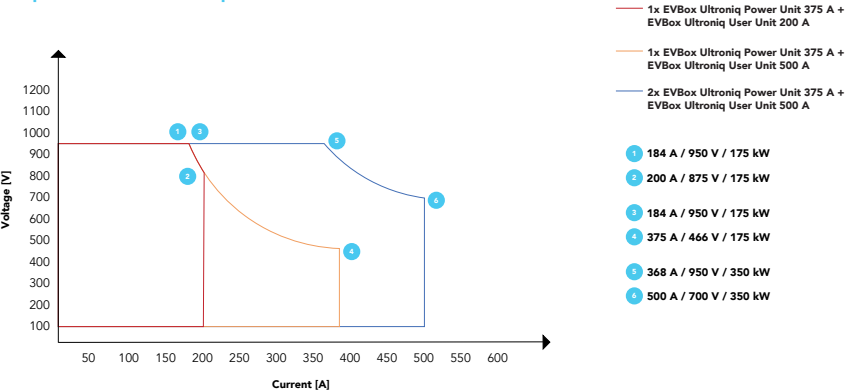
RFID/NFC (ISO 14443, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, Classic, Desfire)
RGB LED Indicators / 7" anti-vandalism LCD touch screen
GPRS/3G modem and Ethernet
OCPP 1.5 S and 1.6 J

Certifications

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

	Configuration A EVBox Ultroniq 175 kW / 200 A	Configuration B EVBox Ultroniq 175 kW / 375 A	Configuration C EVBox Ultroniq 350 kW / 500 A
AC input (EVBox Ultroniq Power Unit 375 A)			
Voltage range	400 VAC +/- 10%		
Number of phases	3 P + N + PE		
Frequency	50 Hz		
Power factor	> 0.98		
Efficiency	95%		
Grounding system	IT, TT or TN-S		
Stand-by power consumption	100 W + 40 W	100 W + 40 W	100 W + 100 W + 40 W
Required power supply capacity	177 kVA	184 kVA	2 x (184 kVA)
Nominal input current	253 A	263 A	2 x (263 A)
DC output			
Maximum output power	175 kW	175 kW	350 kW
Output voltage range	50 VDC – 950 VDC	50 VDC – 950 VDC	50 VDC – 950 VDC
Maximum output current	184 A @ 950 V 200 A @ 875 V	184 A @ 950 V 375 A @ 466 V	368 A @ 950 V 500 A @ 700 V
Electrical protections			
Internal electrical protections	RCBO 30 mA Type A; MCB curve C/D; DC output fuses; 10 mA ground detector		
Required circuit breakers upstream	Adjustable MCCB, set to: $I_o = 270 \text{ A} / I_{sd} = x 10$ & RCD 300 mA, Type A, HI, (S)		2 x (Adjustable MCCB, set to: $I_o = 270 \text{ A} / I_{sd} = x 10$) & 2 x (RCD 300 mA, Type A, HI, (S))

Output Characteristics Graph



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