

# Mobility

EV Chargers

Unlimited Energy



Charge now.  
Save the planet.

An aerial photograph of a two-lane road winding through a dense, dark forest. The road is light gray, contrasting with the dark green foliage. A single car is visible on the road, moving away from the viewer. The text 'We are working on a sustainable present' is overlaid in large, white, sans-serif font, spanning across the road and the forest.

We are working  
on a sustainable  
present



# Vertical integration gives us flexibility to adapt to customers' requirements.

+20 International  
subsidiaries

91<sub>GW</sub>

COMMISSIONED AC POWER

1440<sub>kW</sub>

MAXIMUM POWER WITH  
NB STATION AND MCS SOLUTION

12<sub>MIN</sub>

CHARGE 320 KM  
AT MAX POWER



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NB Station  
& NBi

10

---

MCS Solution

32

---

NB Standalone  
& NBw30

38

---

NB Pod

58

---

NB Wall  
& NB City

64

---

---

Datasheets

76

---

Applications

92

---

Power On  
Support

94

---

Power Cloud

98

---

Contact

100

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# NB Station &

# NBi

A new way to charge your electric vehicle. Cutting edge features designed to save the planet. Our power units have been designed for durability, even in the most demanding working conditions. No matter where, just the power you need.



# NB Station & NBi

The future of e-mobility

<p><b>Compatible with dispensers, pantographs</b> and the most extensive range of DC connectors.</p>	<p><b>Smart Power Balance.</b> Charge different vehicles with different power levels at the same time. This functionality optimizes the use of the total power of the charger and therefore the investment.</p>	<p><b>Retrofit of power module.</b> Modular technology for simplifying future retrofits. NB Station and NBi can be easily power-scalable adding power modules to support EV fleets growth or to follow the increase in EV market size over time.</p> <p>The power modules, FRU concept (Field Replaceable Units), are designed to be easily replaceable on the field without the need for advanced technical service personnel. Easy and reduced maintenance with low operating costs.</p>
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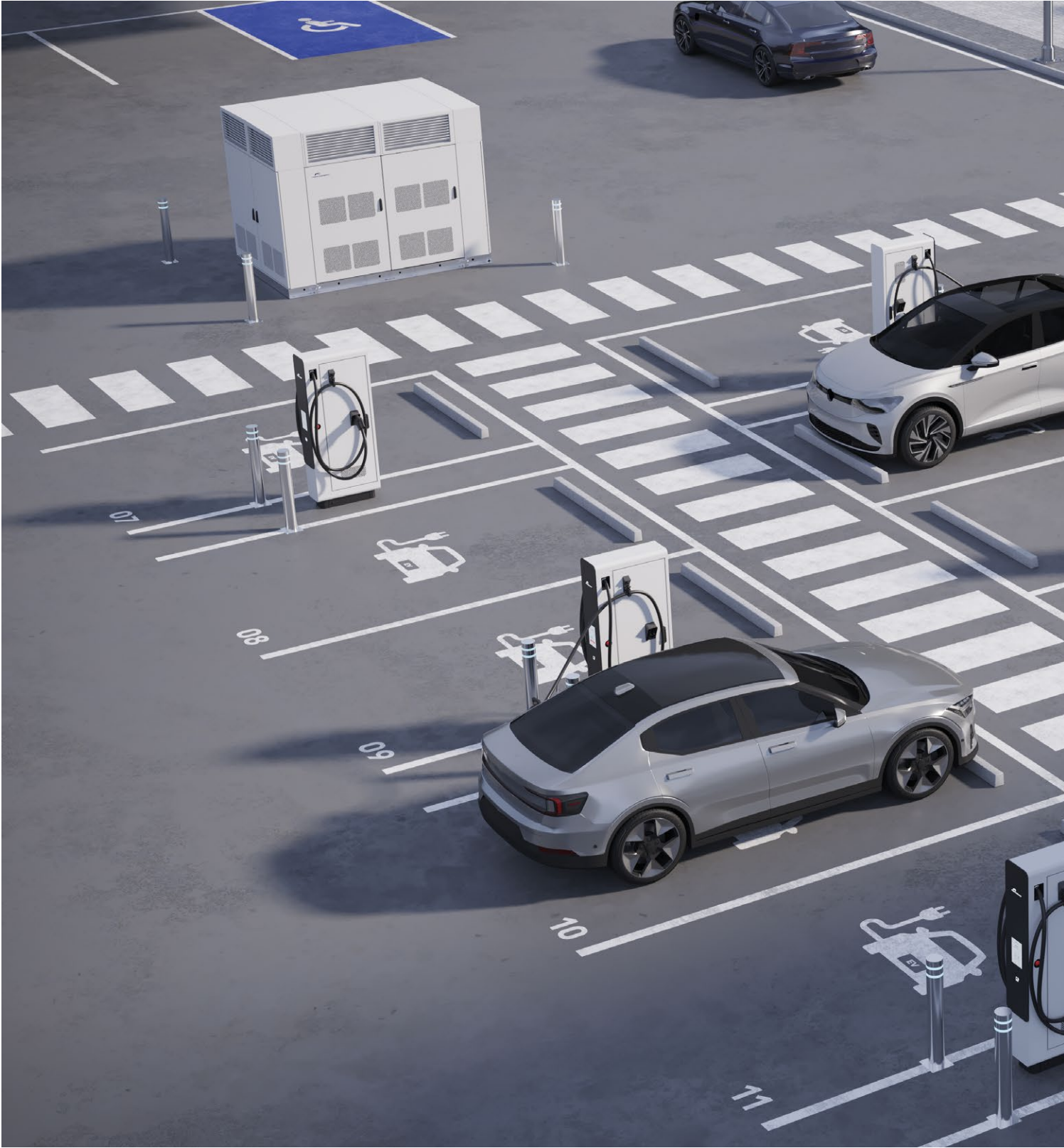
Our NB Station is a turn-key solution, designed with the goal of optimizing costs of your charging infrastructure. Easy to install it is a plug-and-play solution. With its Smart Power Balance functionality the power available is intelligently balanced between outputs taking into consideration how much the vehicles are demanding at each moment.

# NB Station

High-power, flexible,  
modular, and scalable

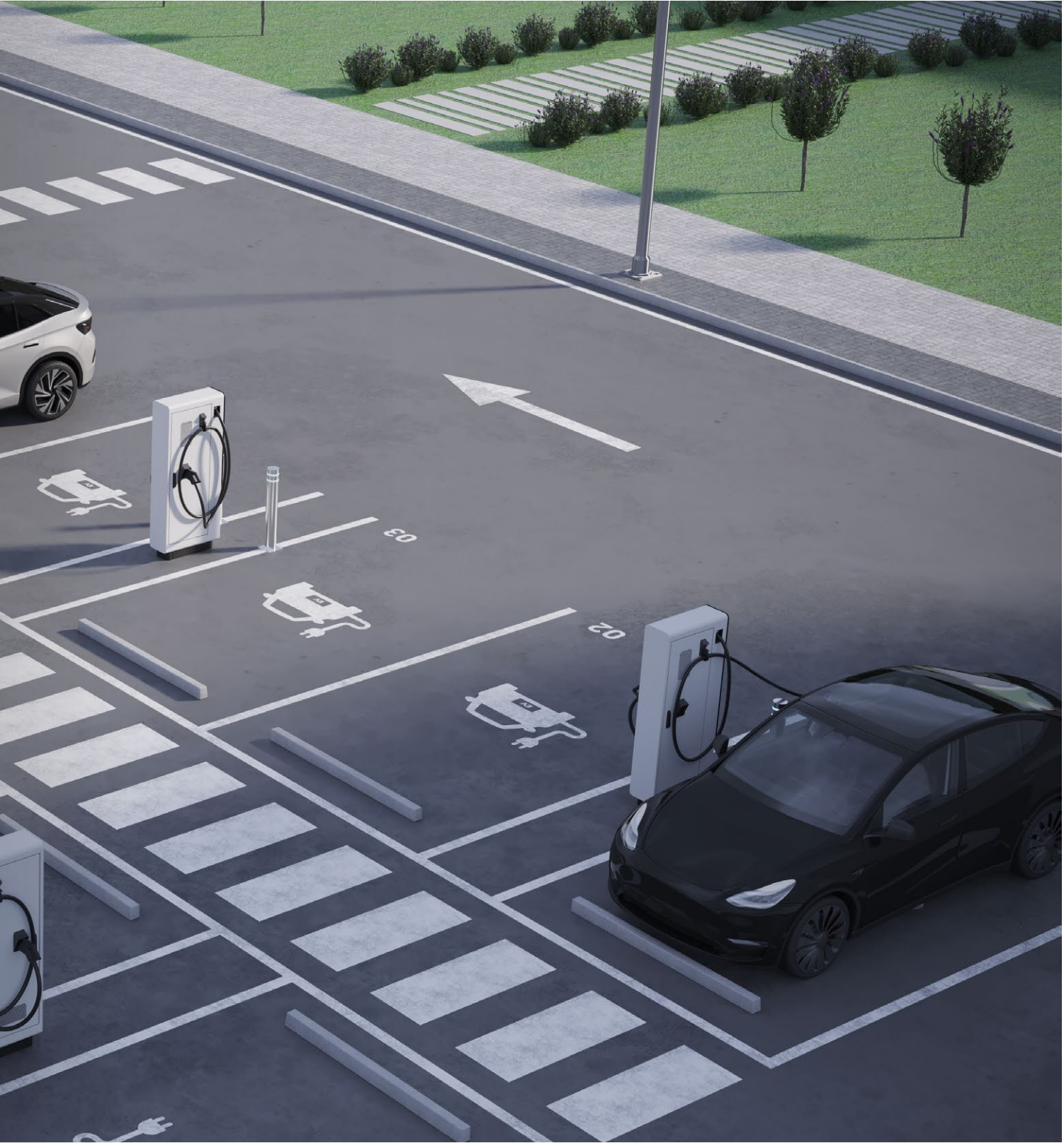






From heavy to light electric vehicles.

From 840 to 1440 kW



Up to 24 vehicles charging  
at the same time

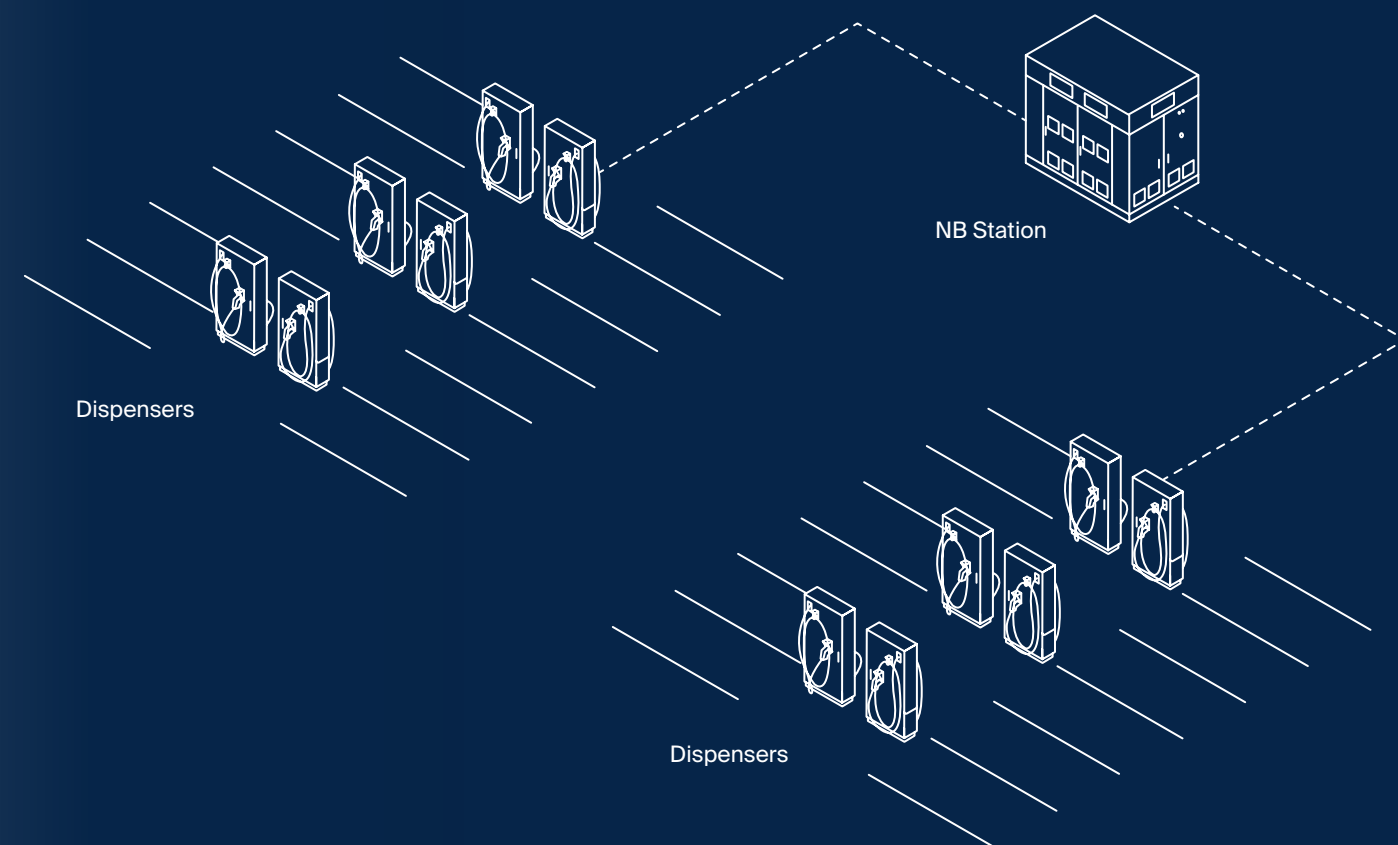
Up to 48 vehicles charging  
sequentially

Maximum power from 300  
to 1000 Vdc





**Designed to support every EV.  
High power density.**



Choose the dispenser disposition to fit your project and to configure the best layout.  
Up to 24 simultaneous charges or 48 sequential.



The NBi 360 brings high power charge to another level. Combine it with a Cooled dispenser or a pantograph to get the maximum speed of charge with no limits or choose a Slim or Depot dispenser to serve up to 4 or up to 6 vehicles at the same time. As our other products, comes standard with Smart Power Balance, so the power available is intelligently balanced between outputs taking into consideration how much the vehicles are demanding.

# NBi 360

High power density



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Maximum power from 300  
to 1000 Vdc

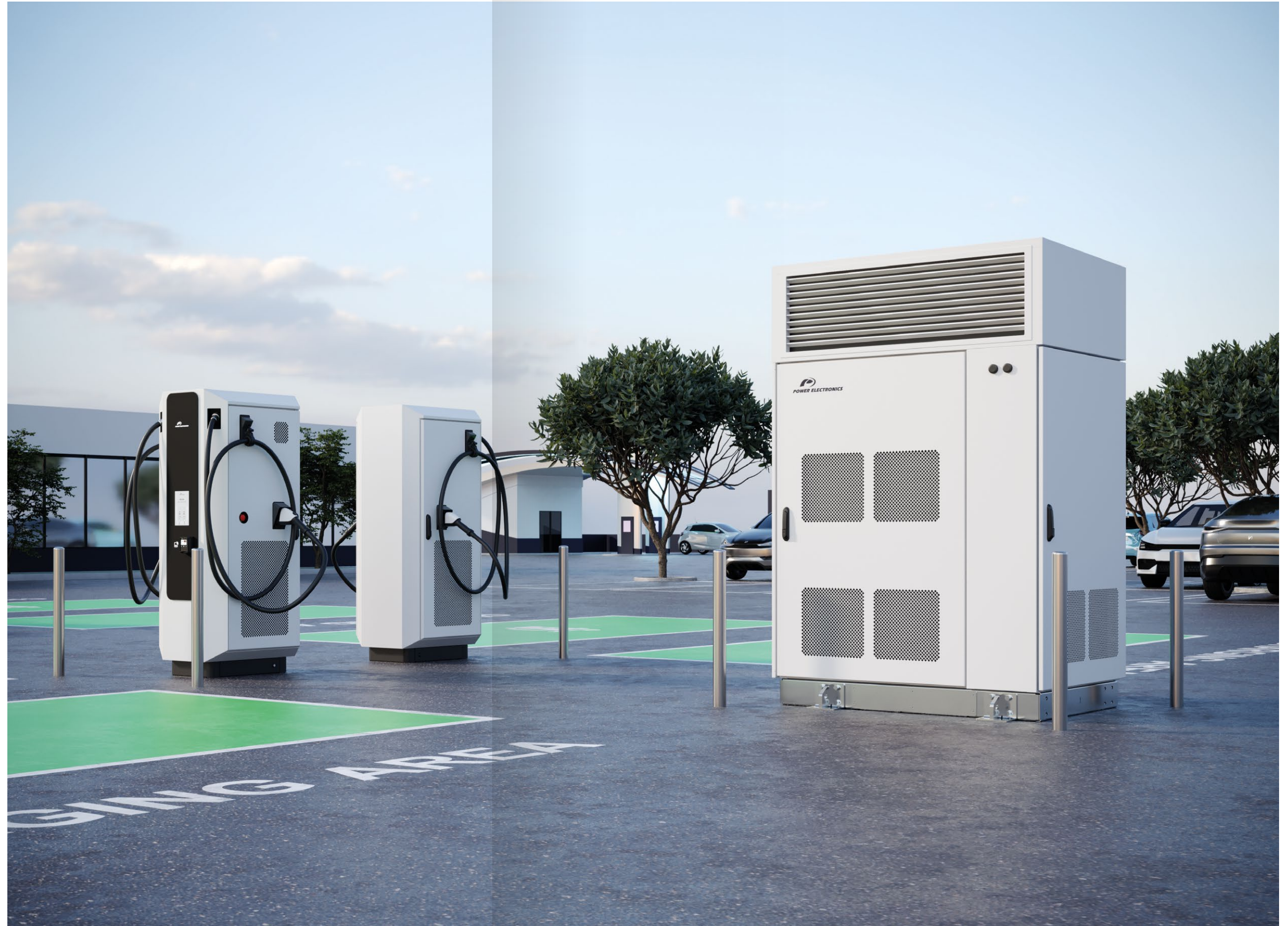
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Up to 6 vehicles charging at  
the same time

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Up to 12 vehicles charging  
sequentially

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Small spaces, smaller power cabinet. Our NBi 180 has been designed to fit anywhere. Back to back or side-to-side installation. A robust, flexible, and compact solution.

# NBi 180

Power cabinets for small spaces






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Maximum power from 300  
to 1000 Vdc

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Up to 3 vehicles charging  
at the same time

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Up to 4 vehicles charging  
sequentially

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Parallel connection up to  
three power cabinets

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Simultaneous and dynamic DC charging up to three outputs. Combine it with dispensers or pantographs to charge your electric vehicles.



# Combine the NB Station or the NBi with your desired dispenser.

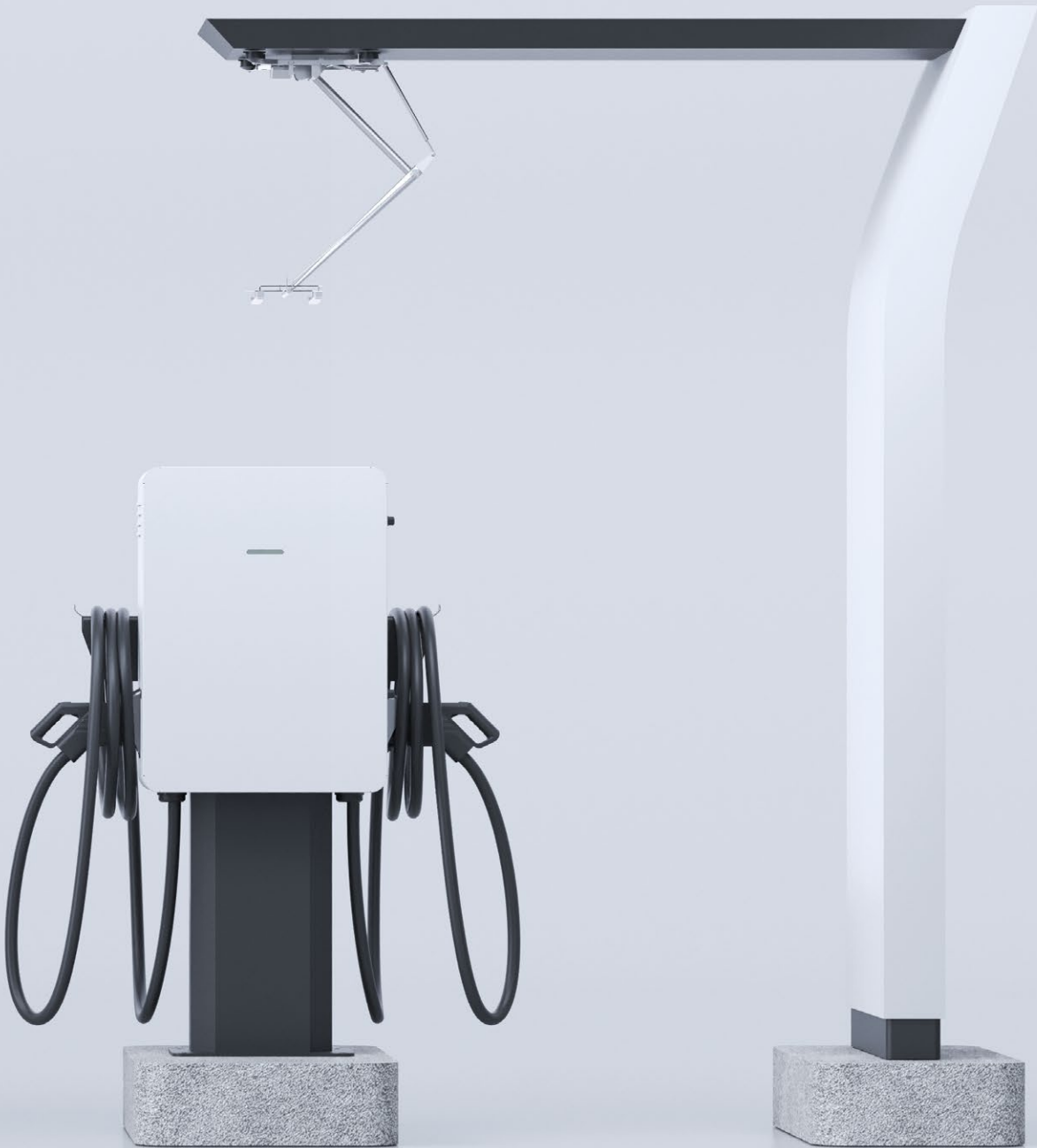


Slim Dispenser



Cooled Dispenser

- 10" Touchscreen
- Built-in cable management system
- RFID included
- Payment terminal option
- Accuracy implementations according to metrology guidelines both for USA and Europe: CTEP Certified and MID metering devices



Depot Dispenser

Pantograph

- 5.5 m or longer cable length, robust design
- Compatible with top-down or bottom-up pantograph



# MCS Solution

Power Electronics introduces its Megawatt Charging System Solution, set to revolutionize the heavy-duty vehicle charging landscape. The MCS boasts an impressive charging power, significantly reducing the time required for a full charge in heavy duty vehicles. Its robust design and user-friendly interface makes it an ideal choice for service stations. The journey towards a cleaner and more efficient transportation future begins!

# MCS (Station + Dispenser Solution)

Megawatt Charging System:  
The future of DC Ultra-Fast Charging

<b>Up to 1440 kW.</b> The Power Electronics solution is capable of providing from one to four outputs with a maximum power output of 1440 kW continuously.	<b>MCS dispenser up to 1x1500 A.</b> The MCS Dispenser is able to provide continuous current thanks to a tested and reliable solution.	<b>Flexible solution, compatible with CCS connectors.</b> The Power Electronics MCS charger allows you to adapt to the needs of the current market thanks to the possibility to integrate MCS dispensers with CCS dispensers.
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Extensive expertise in solutions based on power stations

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Refrigerated dispensers capable of safely working exposed to the inclemencies of weather

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No need for additional cabinet or junction boxes

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Possibility of up to 4 dispensers in total per station

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# NB Standalone & NBw30

Introducing our Standalone line, a truly innovative design combined with cutting edge hardware to dispense energy.



# NB 120, NB 240 & NB 400 <sup>NEW!</sup>

The Standalone family

**Cable Management.** Every charger of the family has a built-in cable management system that allows 5 meters long charging cables without them dragging on the ground. The length of the charging cables and convenient handling has become a must for EV drivers while the preservation of both cables and plugs is key to charging point owners.

**NB Standalone is easily scalable to support EV fleet growth or following, the increase in EV market size.** The power modules, FRU concept (Field Replaceable Units), are designed to be replaceable on the field. Easily and reduced maintenance with low operating costs.

**Smart Fleet Management (optional).** Functionality to share the available power among all connected vehicles at an EV charging site. So the total power required to supply the energy gets substantially reduced, representing a cost savings due to reduced grid interconnect requirements.

**Add a satellite.** Expand your EV charging station by adding a Cooled or Slim dispenser as a satellite (only available in NB 240).

**Using the Smart Power Balance feature,** NB Standalone is able to allocate power modules based on the power of each vehicle. This feature maximizes the overall charging power usage and hence its investment.



The NB 120 is the smallest of the family. Able to charge up to 3 vehicles at the same time (2 in DC and 1\* in AC) and with a robust design suitable for any environment.

\*Available for IEC products.

# NB 120

The smartest way of charging





60 - 90 - 120 kW
Full power from 300 to 1000 Vdc
Accuracy implementations according to metrology guidelines both for USA and Europe: CTEP Certified and MID metering devices
Energy Star certified

Up to 3 vehicles charging at the same time (2 in DC and 1\* in AC).

\*Available for IEC products.



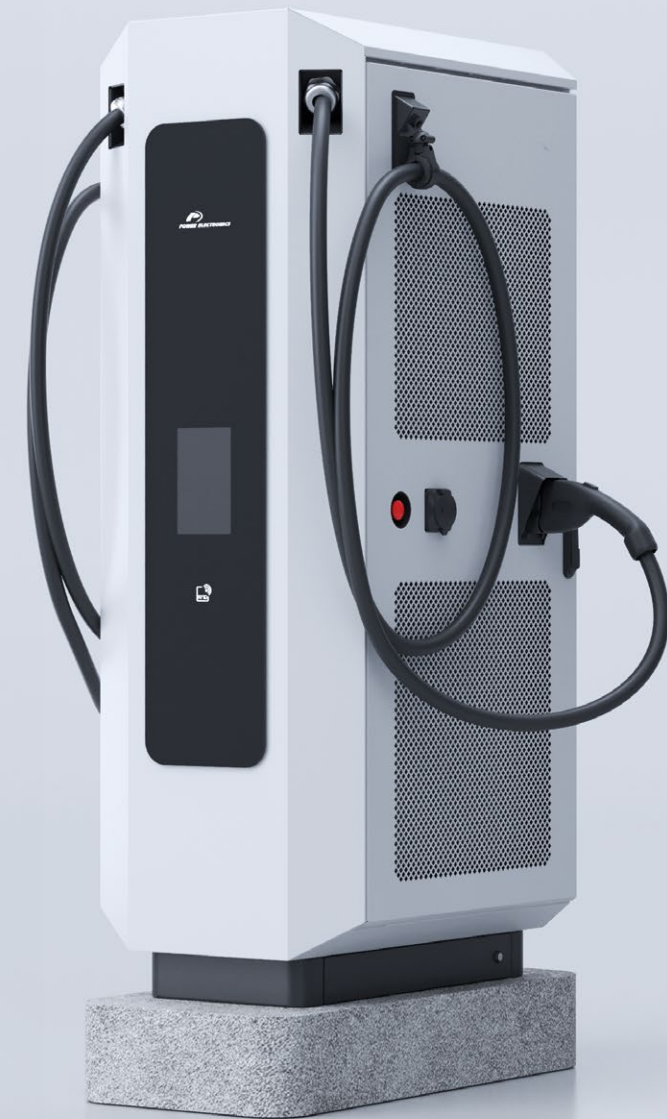


NB 240, the big brother. The grown up NB 120. Able to charge up to 5 vehicles at the same time by adding a satellite dispenser (4 DC and 1\* in AC).

\*Available for IEC products.

# NB 240

High power in a small enclosure







150 - 180 - 210 - 240 kW
Maximum power from 300 to 1000 Vdc
Accuracy implementations according to metrology guidelines both for USA and Europe: CTEP Certified and MID metering devices
Energy Star certified

With the addition of the satellite, charge up to 5 vehicles at the same time (4 in DC and 1\* in AC)  
\*Available for IEC products.

Up to 2 vehicles charging simultaneously at 200 kW, with a granularity of 80 to 120 kW for dynamic power distribution. Cooled or non-cooled cable versions available.

# NB 400<sup>NEW!</sup>

The most powerful Standalone







- Up to 400 kW
- Modular technology
- Super-reduced standby power consumption
- Product developed under the most demanding certifications (Eichrecht and CTEP compliant)
- Suitable for installations in the USA (NEVI compliant and NACS connector available)

# NBw30

<p><b>Compact design.</b> The smallest DC charger of the family, providing 30 kW of power in an extended voltage range. The charger is designed for indoor or outdoor use, and its pleasant design makes it a welcome addition to any location.</p>	<p><b>Wall or pedestal mounting.</b> The NBw30 fits in any place, it can be configured for wall mounting or in a pedestal, making it a versatile and convenient option for charging electric vehicles.</p>	<p><b>Friendly Interface.</b> The touchscreen display is easy to use and provides all the information you need to know about your charge. The wireless connections and the latest communication protocols make it easy to connect to a vehicle and start charging. Can be configured with CCS or CCS+CHAdEMO alternative charge.</p>
<p><b>All-in-one solution.</b> The charger incorporates protections, as well as integrated 4G modem, RFID authentication and the most common connectors for electric vehicles (CHAdEMO and CCS).</p>		







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Maximum power from 300  
to 1000 Vdc

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Output power 30 kW

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Multiple mounting options

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# NB Pod

Combine storage with e-mobility to add real value to your installation. NB Pod makes management simpler. It is an industry-leading technology that allows you to optimize your energy consumption and save costs. A technology that will reliably support you every time, discharging in dire times and recharging when not needed.



# NB Pod

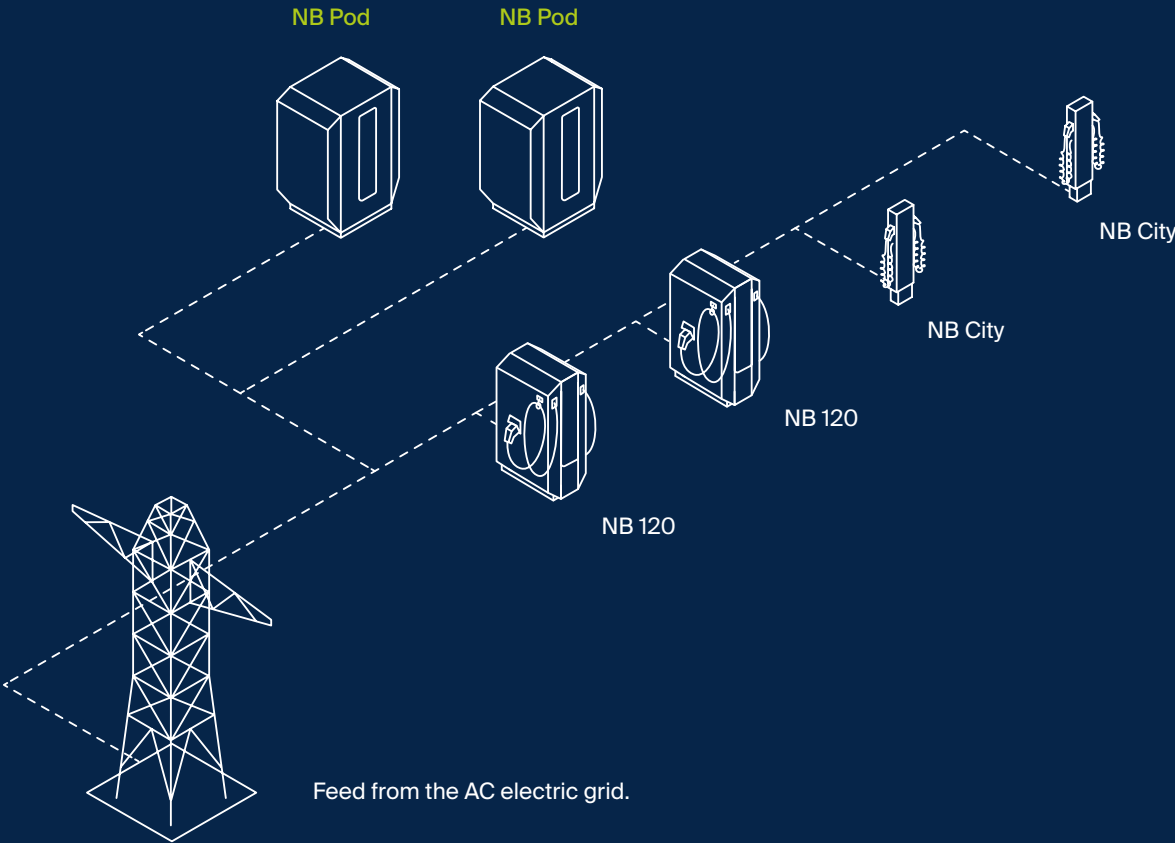
Powering the e-mobility revolution

<b>Small scale lithium-ion battery storage system.</b> NB Pod is a robust, reliable and attractive battery storage system.	<b>Plug&amp;Play solution.</b> With integrated protections, NB Pod is a complete plug&play solution that can be easily integrated into new and existing EV charging installations.	<b>Full scalability.</b> NB Pod is a flexible and scalable solution by parallelization. Additional total power and storage capacity can be added to meet a wide range of applications.
<b>Advanced Energy Management System for easy integration with your EV charging station.</b>		



Scalability in capacity and power.

Several NB Pod can be connected in parallel configuration to increase total power and storage capacity.



By delivering stored energy during high-demand periods, it reduces the burden on the grid and increases significantly its efficiency

NB Pod has an integrated energy management system that, in communication with both the load and the grid, is able to allocate power so as not to exceed a fixed or dynamic power limitation.








# NB Wall & NB City

Charging your electric vehicle was never as easy.  
EV Chargers for your commercial applications.

# NB Wall & NB City

Our AC line. Ready to be your new favorite charger.

<p><b>Smart fleet management.</b> Functionality to balance the power based on the number of chargers in use. So, the total power required to supply the energy gets substantially reduced, representing a cost reduction in the electrical facility infrastructure and cost savings due to reduced grid interconnect requirements.</p>	<p><b>Dynamic Power Control.</b> Add an optional device to measure dynamically the power consumed. Our urban range has Ethernet &amp; Wi-Fi and 3G/4G communication.</p>	<p><b>Multiple connection options.</b></p> <div><div> AC Type 1</div><div> AC Type 2</div><div> Socket AC Type 2</div></div>	<p><b>Customizable design.</b> Choose your favorite configuration inside of our customizable options.</p> <div><div></div><div></div><div></div></div>
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Small charger for big changes. Small, durable and aesthetic. This is how our NB Wall is. Choosing NB Wall means choosing the best quality for your installation.

# NB Wall







NB Wall  
Frame 1

310 x 200 x 310mm
1 connector
IEC - 22 kW
UL - 7.7 kW



NB Wall  
Frame 2

310 x 200 x 750mm
2 connectors
IEC - 22 kW
UL - 7.7 kW



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The strongest AC charger. Charge 2 vehicles at the same time with all electrical protections included in the same enclosure.

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# NB City





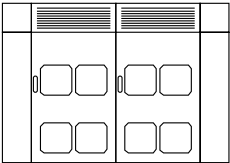
350 x 300 x 1300mm
2 connectors
IEC - 2 x 22 kW
UL - 2 x 7.7 kW



# Datasheets

Find all the specifications of our products just here.

## NB Station



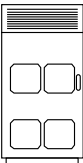
REFERENCE		NBSK08400SH3 NBSK08400SU3	NBSK10800SH3 NBSK10800SU3	NBSK12000SH3 NBSK12000SU3	NBSK13200SH3 NBSK13200SU3	NBSK14400SH3 NBSK14400SU3
DC OUTPUT	Maximum power [kW]	840	1080	1200	1320	1440
	Number of power module	28	36	40	44	48
	Charging dispenser power [kW] <sup>[1]</sup>	60 / 90 / 120 / 180 / 240 / 360				
	Charging pantograph power [kW] <sup>[1]</sup>	60 / 90 / 120 / 180 / 240 / 360				
	Voltage range [V]	150 - 1000 <sup>[2]</sup>				
AC INPUT	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%				
	Power factor	> 0.99				
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)				
	Efficiency	95%				
GENERAL	Protections	Overvoltage (Type 2)				
		Overcurrent / shortcircuit (Circuit Breakers)				
		Overtemperature				
	Others	Smart Power Balance (optional)				
	Enclosure color	Grey (RAL 7035)				
	Protection rating	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)				
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122. Optional: -30 to 50 / -22 to 122				
	Relative humidity	From 4% to 95%				
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Optional: 3000 / 9842				
	Communications	Ethernet (10/100)				
		Cellular data: 4G, 3G, GSM				
	Preliminary dimensions (WxDxH) [mm/ft]	3000 x 2020 x 2300 / 9.84 x 6.63 x 7.55				
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A				

NOTES

[1] The final delivered power depends on the combiner model selected.

[2] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.

NBi 180

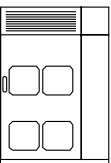


REFERENCE		NBi0600H NBi0600U NBi060SH NBi060SU	NBi0900H NBi0900U NBi090SH NBi090SU	NBi1200H NBi1200U NBi120SH NBi120SU	NBi1500H NBi1500U NBi150SH NBi150SU	NBi1800H NBi1800U NBi180SH NBi180SU
DC OUTPUT	Maximum power [kW]	60	90	120	150	180
	Voltage range [V]	150 - 1000 <sup>[1]</sup>				
	Maximum simultaneous charging points	1	2	2	3	3
	Maximum sequential charging points	4				
AC INPUT FOR DC OUTPUT	Power [kVA]	63	95	126	158	189
	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%				
	Power factor	> 0.99				
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)				
	Efficiency	95%				
GENERAL	Protections	Overvoltage (Type 2) (optional)				
		Overcurrent / shortcircuit (Circuit Breakers)				
		RCD Type A (optional)				
	Others	Smart Fleet Management (optional)				
		Smart Power Balance (optional)				
	Enclosure / foot colour	White (RAL 9016) / Grey (RAL 7016)				
	Customization <sup>[2]</sup>	Enclosure / Foot				
	Protection rating	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)				
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122				
	Relative humidity	From 4% to 95%				
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842				
	Communications	Ethernet (10/100) + Wi-Fi				
		Cellular data: 4G, 3G, GSM				
	Dimensions (WxDxH) [mm/ft]	1000 x 800 x 2000 / 3.28 x 2.63 x 6.56				
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A				

NOTES

[1] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.  
[2] Consult Power Electronics for more information.

NBi 360



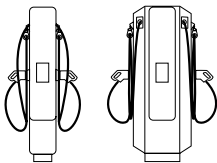
REFERENCE		NBi180RH NBi180RU	NBi240RH NBi240RU	NBi360RH NBi360RU
DC OUTPUT	Maximum power [kW]	180	240	360
	Number of power module	6	8	12
	Charging dispenser power [kW] <sup>[1]</sup>	60 / 90 / 120 / 180 / 360		
	Charging pantograph power [kW] <sup>[1]</sup>	60 / 90 / 120 / 180 / 360		
	Voltage range [V]	150 - 1000 <sup>[2]</sup>		
AC INPUT FOR DC OUTPUT	Power [kVA]	193	257	385
	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%		
	Power factor	> 0.99		
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)		
	Efficiency	95%		
GENERAL	Protections	Overtemperature		
		Overvoltage (Type 2)		
		Overcurrent / shortcircuit (Circuit Breakers) (optional)		
	Others	RCD Type A (optional) <sup>[3]</sup>		
		Smart Fleet Management (optional)		
	Others	Smart Power Balance (optional)		
		E-Stop Button ready <sup>[4]</sup>		
	Enlosure / Foot colour	Grey (RAL 7035) / Grey (RAL 7016)		
	Protection rating	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)		
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122		
	Relative humidity	From 4% to 95%		
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842		
	Communications	Ethernet (10/100)		
		Cellular data: 4G, 3G, GSM		
	Dimensions (WxDxH) [mm/ft]	1550 x 1010 x 2300 / 5.08 x 3.31 x 7.55		
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A		

NOTES

[1] The final delivered power depends on the combiner model selected.  
[2] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.  
[3] Only available for IEC products.  
[4] Contacts for E-Stop Button only available when MCB optional is installed.



Slim and Cooled Dispenser



REFERENCE		NBDC2000H NBDC2000U	NBDC2500H -	NBDC3000H NBDC3000U	NBDC500CH NBDC500CU
DC OUTPUT	Maximum continuous current CCS [A]	200	250	300	500 <sup>[3]</sup>
	Peak current CCS [A] <sup>[2]</sup>	500			
	Maximum current CHAdeMO [A]	125			
	Voltage range [V]	150 – 1000 <sup>[1]</sup>			
	Available connectors	CCS-1, CCS-2, CHAdeMO			
GENERAL	Interface	10" Touchscreen			
		E-stop pushbutton			
		Payment terminal (optional)			
	RFID reader	ISO14443 A/B, MIFARE, Calypso, ISO18092, ISO15693 and more			
	Protections	Insulation monitor			
	Energy measurement	Internal Energy Measurement			
		DC meter for DC output (optional)			
	Cable length [m/ft]	5 / 16.4 with cable management system (optionally, 7.6 / 25)			
	Degree of protection	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)			
	Enclosure / foot / glass color	White (RAL 9016) / Grey (RAL 7016) / Black			
	Customization <sup>[4]</sup>	Enclosure / foot / glass / logo			
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122			
		Optional: -30 to 50 / -22 to 122			
	Relative humidity	From 4% to 95%			
	Maximum altitude above sea [m/ft]	2000 / 6561 without derating (max. 3000 / 9842)			
	Charge protocols	ISO 15118, CHAdeMO 1.1 and DIN 70121			
	Communication protocols	OCPP 1.6J and API Rest <sup>[4]</sup>			
	Dimensions for Slim (WxDxH) [mm/ft]	300 x 760 x 1800 / 0.98 x 1.64 x 5.9			
	Dimensions for Cooled (WxDxH) [mm/ft]	670 x 750 x 1800 / 2.2 x 2.5 x 5.9			
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A			

NOTES

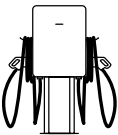
[1] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.

[2] Consult with Power Electronics for more information about the connector overload capability.

[3] Standard Cooled dispenser available with 1 output. Consult with Power Electronics for availability.

[4] Consult with Power Electronics for further information.

Depot Dispenser



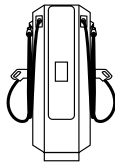
REFERENCE		NBDI2000H NBDI2000U	NBDI2500H -	NBDI3000H NBDI3000U
DC OUTPUT	Maximum continuous current CCS [A]	200	250	300
	Peak current CCS [A] <sup>[1]</sup>	500		
	Voltage range [V]	150 – 1000		
	Available connectors	CCS-1 and CCS-2		
	Interface	Status LED indicator		
E-stop pushbutton				
Stop charging button				
Protections	Insulation monitor			
Cable length [m/ft]	(5.5 or 7.6 / 13.1, 18 or 25)			
Degree of protection	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)			
Enclosure / pedestal color	White (RAL 9016) / Grey (RAL 7016)			
GENERAL	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122		
	Relative humidity	From 4% to 95%		
	Maximum altitude above sea	Without derating: 2000 / 6561. Max: 3000 / 9842		
	Charge protocols	ISO 15118 and DIN 70121		
	Communication protocols	OCPP 1.6J and API Rest <sup>[2]</sup>		
	Dimensions (WxDxH) [mm/ft]	600 x 322 x 800 (1450 with pedestal) / 1.97 x 1.06 x 2.62 (4.76 with pedestal)		
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A		

NOTES

[1] Consult with Power Electronics for more information about the connector overload capability.

[2] Consult with Power Electronics for further information.

Standalone NB 120



REFERENCE		NB060SH NB060SU	NB090SH NB090SU	NB120SH NB120SU
DC OUTPUT	Maximum power [kW]	60	90	120
	Voltage range [V]	150 – 1000 <sup>[1]</sup>		
	Available connectors	CCS-1, CCS-2, CHAdeMO		
	Maximum continuous current CCS [A]	200	300	300
	Peak current CCS [A] <sup>[2]</sup>	200	300	400
	CCS nominal current [A]	Standard: 200. Optional: 250 (only for IEC) or 300		
	Maximum current CHAdeMO [A]	125		
	Maximum number of EVs charging simultaneously	2	2	2
AC OUTPUT (OPTIONAL, ONLY FOR IEC)	Power [kW]	22		
	Voltage range [V]	400 ± 10%		
	Maximum current [A]	32		
	Available connectors	AC Type 2 Socket		
AC INPUT FOR DC OUTPUT	Power [kVA]	63	95	126
	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%		
	Power factor	> 0.99		
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)		
	Efficiency	95%		

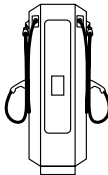
	Interface	10" Touchscreen
		E-stop pushbutton
	RFID reader	Payment terminal (optional)
		ISO14443 A/B, MIFARE, Calypso, ISO18092, ISO15693 and more
	Protections	Insulation monitor
		Overcurrent / shortcircuit (Circuit Breakers)
		Overvoltage (Type 2) (optional)
		RCD Type A (optional)
		AC charge (optional): Circuit Breaker + RCD Type A + RCM
	Others	Smart Fleet Management (optional)
		Internal DC energy measurement
	Energy measurement	DC meter for DC output (optional)
		AC MID meter for AC output
GENERAL	Cable length [m/ft]	5 / 16.4 with cable management system. Optionally: 7.6 / 25
	Enclosure / foot / glass color	White (RAL 9016) / Grey (RAL 7016) / Black
	Customization <sup>[3]</sup>	Enclosure / Foot / Glass / Logo
	Protection rating	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122
	Relative humidity	From 4% to 95%
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842
	Communications	Ethernet (10/100) + Wi-Fi
		Cellular data: 4G, 3G, GSM
	Charge protocols	ISO 15118, CHAdeMO 1.1 and DIN 70121
	Communication protocols	OCPP 1.6J and API Rest <sup>[3]</sup>
	Dimensions (WxDxH) [mm/ft]	670 x 750 x 1800 / 2.2 x 2.5 x 5.9
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2
		UL 2202, NEC 625, FCC Part 15 Class A

NOTES

- [1] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.
- [2] Consult with Power Electronics for more information about the connector overload capability.
- [3] Consult with Power Electronics for further information.



Standalone NB 240



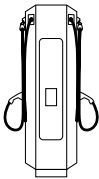
REFERENCE		NB150SH NB150SU	NB180SH NB180SU	NB210SH NB210SU	NB240SH NB240SU
DC OUTPUT	Maximum power [kW]	150	180	210	240
	Voltage range [V]	150 – 1000 <sup>[1]</sup>			
	Available connectors	CCS-1, CCS-2, CHAdeMO			
	Maximum continuous current CCS [A]	300			
	Peak current CCS [A] <sup>[2]</sup>	500			
	CCS nominal current [A]	Standard: 200. Optional: 250 (only for IEC) or 300			
	Maximum current CHAdeMO [A]	125			
	Maximum number of EVs charging simultaneously	2			
AC OUTPUT (OPTIONAL, ONLY FOR IEC)	Power [kW]	22			
	Voltage range [V]	400 ± 10%			
	Maximum current [A]	32			
	Available connectors	AC Type 2 Socket			
DC OUTPUT FOR ADDITIONAL SATELLITE DISPENSER (OPTIONAL)	Voltage range [V]	150 – 1000 <sup>[1]</sup>			
	Available connectors	CCS-1, CCS-2, CHAdeMO			
	CCS connector nominal current [A]	Standard: 200. Optional: 250, 300, 500 (cooled)			
	Peak current CCS [A] <sup>[2]</sup>	500			
	Maximum current CHAdeMO [A]	125			
	Number of additional EVs charging simultaneously	1	1	2 (slim) / 1 (cooled)	2 (slim) / 1 (cooled)
AC INPUT FOR DC OUTPUT	Power [kVA]	158	189	221	253
	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%			
	Power factor	> 0.99			
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)			
	Efficiency	95%			

	Interface	10" Touchscreen
		E-stop pushbutton
		Payment terminal (optional)
	RFID reader	ISO14443 A/B, MIFARE, Calypso, ISO18092, ISO15693 and more
	Protections	Insulation monitor
		Overcurrent / shortcircuit (Circuit Breakers)
		Overvoltage (Type 2) (optional)
		RCD Type A (optional)
		AC charge (optional): Circuit Breaker + RCD Type A + RCM
	Others	Smart Fleet Management (optional)
GENERAL	Energy measurement	Internal DC energy measurement
		DC meter for DC output (optional)
		AC MID meter for AC output
	Cable length [m/ft]	5 / 16.4 with cable management system. Optionally: 7.6 / 25
	Enclosure / foot / glass color	White (RAL 9016) / Grey (RAL 7016) / Black
	Customization <sup>[3]</sup>	Enclosure / Foot / Glass / Logo
	Protection rating	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122
	Relative humidity	From 4% to 95%
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842
	Communications	Ethernet (10/100) + Wi-Fi
		Cellular data: 4G, 3G, GSM
	Charge protocols	ISO 15118, CHAdeMO 1.1 and DIN 70121
	Communication protocols	OCPP 1.6J and API Rest <sup>[3]</sup>
	Dimensions (WxDxH) [mm/ft]	670 x 950 x 2000 / 2.19 x 3.12 x 6.56
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A

NOTES

- [1] 150 - 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.
- [2] Consult with Power Electronics for more information about the connector overload capability.
- [3] Consult with Power Electronics for further information.

NB 400



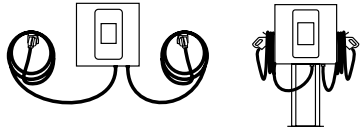
REFERENCE		NB400H NB400U
DC OUTPUT	Maximum power [kW]	400
	Voltage range [V]	200 – 1000
	Available connectors <sup>[1]</sup>	IEC: CCS-2 / UL: CCS-1, NACS
	Maximum continuous current [A]	400 A (Uncooled version) 600 A (Cooled version) <sup>[1]</sup>
	Peak current (uncooled version) [A] <sup>[1]</sup>	500
	Maximum number of EVs charging simultaneously	2
AC INPUT FOR DC OUTPUT	Power [kVA]	425
	Voltage [V]	400 IEC / 480 UL (3ph + PE) ± 10% / no neutral
	Power factor	> 0.99
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)
	Efficiency	95%
GENERAL	Interface	10" Touchscreen
		Payment terminal (optional)
	RFID reader	ISO14443 A/B, MIFARE, Calypso, ISO18092, ISO15693
		Insulation monitor
	Protections	Surge arrester Type 2
		Overcurrent / short circuit (Circuit breaker) 65 kA short circuit rating
		Internal DC energy measurement
	Energy meter	DC meter for DC output (optional) Eichrecht (IEC) / CTEP (UL) compliant <sup>[1]</sup>
	Cable length [m/ft]	5 / 16.4 with cable management system Optionally: 7.6 / 25
	Enclosure / Foot / Glass color	White (RAL 9016) / Grey (RAL 7016) / Black
	Customization <sup>[2]</sup>	Enclosure / Colour
	Protection rating	NEMA 3R   IK10 (IK08 for ventilation grilles)
	Operating temperature range [°C/°F]	Standard: -25 to 50 / -13 to 122 Optional: -30 to 50 / -22 to 122
	Relative humidity	From 4% to 95%
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842
	Communications	Ethernet (10/100)
		Cellular data: 4G, 3G, GSM
	Charge protocols	ISO 15118, DIN 70121
	Communication protocols	OCPP 1.6J, OCPP 2.0.1, API Rest <sup>[2]</sup>
	Dimensions (WxDxH) Preliminary [mm/ft]	710 x 950 x 2250 / 2.32 x 3.12 x 7.38
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A

NOTES

[1] Consult availability with Power Electronics.

[2] Consult with Power Electronics for further information.

NBw30



REFERENCE		NBw300H	NBw300U
DC OUTPUT	Maximum power [kW]	30	
	Voltage range [V]	150 – 1000 <sup>[1]</sup>	
	Available connectors <sup>[2]</sup>	CCS-1, CCS-2, CHAdeMO	
	Maximum simultaneous charging points	1	
	Maximum continuous current CCS [A]	80	
	Peak current CCS [A] <sup>[5]</sup>	100	
	Maximum current CHAdeMO [A]	100	
AC INPUT FOR DC OUTPUT	Power [kVA]	31.9	
	Voltage [V]	400 IEC / 480 UL (3ph + N + PE) ± 10%	
	Power factor	> 0.99	
	Frequency [Hz]	50 (IEC) / 60 (IEC & UL)	
	Efficiency	95%	
GENERAL	Interface	10" Touchscreen	
		E-stop pushbutton	
	RFID reader	ISO14443 A/B, MIFARE, Calypso, ISO18092, ISO15693 and more	
	Protections	Insulation monitor	
		Overcurrent / shortcircuit (Circuit breaker)	
		Overvoltage (Type 2) (optional)	
		RCD Type A	
	Others	Smart Fleet Management (optional)	
	Cable length [m/ft]	Standard: 7.6 / 25	
	Door / enclosure / pedestal <sup>[3]</sup> / glass color	White (RAL 9016) / Grey (RAL 7016) / Grey (RAL 7016) / Black	
	Customization <sup>[4]</sup>	Enclosure / Pedestal / Glass / Logo	
	Degree of protection	NEMA 3R   IP54   IK10 (IK08 for ventilation grilles)	
	Operating temperature range [°C/°F]	-25 to 50 / -13 to 122	
	Relative humidity	From 4% to 95%	
	Maximum altitude above sea [m/ft]	Without derating: 2000 / 6561. Max: 3000 / 9842	
	Communications	Ethernet (10/100) + Wi-Fi	
		Cellular data: 4G, 3G, GSM	
	Charge protocols	ISO 15118, CHAdeMO 1.1 and DIN 70121	
	Communication protocols	OCPP 1.6J and API Rest <sup>[4]</sup>	
	Dimensions (WxDxH) [mm/ft]	700 x 318 x 680 (1430 with pedestal) / 2.3 x 1 x 2.2 (4.7 with pedestal)	
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61851-21-2 UL 2202, NEC 625, FCC Part 15 Class A	

NOTES

[1] 150 – 500 Vdc for CHAdeMO. Maximum power from 300 Vdc.

[2] Available configurations: CCS-1, CCS-2, CCS-1 + CHAdeMO, CCS-2 + CHAdeMO. CCS + CHAdeMO non simultaneous.

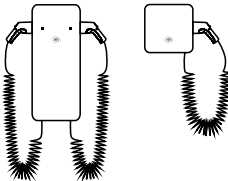
[3] Assembly on pedestal is an option.

[4] Consult with Power Electronics for further information.

[5] Consult with Power Electronics for more information about the connector overload capability.



NB Wall  
UL

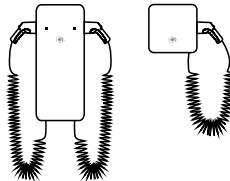


Model	BASIC		ADVANCED	PROFESSIONAL
AC input [V]	208 / 240 (L1, L2, PE)			
Maximum output power per connector [kW]	6.7 / 7.7			
Energy measurement	Internal energy measurement			
	-	-	Revenue meter	
Communications	Wifi			
	-	-	3G / 4G connectivity	
	Ethernet			
	OCPP 1.6			
Authentication	RFID card reader			
Protections	-	CCID	CCID	
	-	MCB	MCB	
External enclosure	NEMA 3R			
	White colour (RAL 9016 - microtexture painting)			
	C4 anti-corrosion protection <sup>[1]</sup>			
Glass colour	Black			
Operating temperature	From -13°F to 122°F			
Relative humidity	4% - 95%			
Interface	Status indicator			
Dimensions (W x D x H) [mm]	Frame 1: 1.01 x 0.65 x 1.01			
	Frame 2: 1.01 x 0.65 x 2.46			
Cable input	Frame 1: Bottom input Frame 2: Bottom and rear input			
Regulation	UL 2594, FCC Part 15 Class B, NEC 625			

STANDARD MODELS	FRAME	MODEL	REFERENCE	TYPE OF CONNECTOR
	FRAME 1	BASIC	NBWUB23	1 x AC Type 1 (Plug - 13.1 ft spiral)
		ADVANCED	NBWUA23	1 x AC Type 1 (Plug - 13.1 ft spiral)
		PROFESSIONAL	NBWUP23	1 x AC Type 1 (Plug - 13.1 ft spiral)
	FRAME 2	BASIC	NBWUB28	2 x AC Type 1 (Plug - 13.1 ft spiral)
		ADVANCED	NBWUA28	2 x AC Type 1 (Plug - 13.1 ft spiral)
		PROFESSIONAL	NBWUP28	2 x AC Type 1 (Plug - 13.1 ft spiral)

AVAILABLE OPTIONS	<b>Cable length</b>	<b>Dynamic power control</b>
	Normally is 13.1 ft of spiral, but you could also have 18 ft of straight cable	One option < 300 A

NB Wall  
IEC

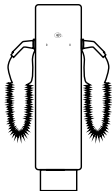


Model	BASIC	ADVANCED	PROFESSIONAL
AC input [V]	400 (3ph + N +PE)		
Maximum output power per connector [kW]	22.2		
Energy measurement	Internal energy measurement		
	-	-	MID meter
Communications	Wifi		
	-	-	3G / 4G connectivity
	Ethernet		
	OCPP 1.6		
Authentication	RFID card reader		
Protections	-	RCD Type A	RCD Type A
	-	MCB	MCB
	-	RCM	RCM
External enclosure	IP54 / IK10 (IK08 for ventilation grilles)		
	White colour (RAL 9016 - microtexture painting)		
	C4 anti-corrosion protection <sup>[1]</sup>		
Glass colour	Black		
Operating temperature	From -25°C to 50°C		
Relative humidity	4% - 95%		
Interface	Status indicator		
Dimensions (W x D x H) [mm]	Frame 1: 310 x 200 x 310		
	Frame 2: 310 x 200 x 750		
Cable input	Frame 1: Bottom input Frame 2: Bottom and rear input		
Regulation	IEC 61851-1, IEC 61000-6-2, IEC 61000-6-3		

STANDARD MODELS	FRAME	MODEL	REFERENCE	TYPE OF CONNECTOR
	FRAME 1	BASIC	NBWHB41	1 x AC Type 2 (Plug - 4 m spiral)
			NBWHB42	1 x AC Type 2 (Socket)
		ADVANCED	NBWHA41	1 x AC Type 2 (Plug - 4 m spiral)
			NBWHA42	1 x AC Type 2 (Socket)
		PROFESSIONAL	NBWHP41	1 x AC Type 2 (Plug - 4 m spiral)
			NBWHP42	1 x A C Type 2 (Socket)
	FRAME 2	BASIC	NBWHB46	2 x AC Type 2 (Plug - 4 m spiral)
			NBWHB47	2 x AC Type 2 (Socket)
		ADVANCED	NBWHA46	2 x AC Type 2 (Plug - 4 m spiral)
			NBWHA47	2 x AC Type 2 (Socket)
		PROFESSIONAL	NBWHP46	2 x AC Type 2 (Plug - 4 m spiral)
			NBWHP47	2 x AC Type 2 (Socket)

AVAILABLE OPTIONS	<b>Cable length</b>	<b>Dynamic power control</b>
	Normally is 4 m of spiral, but you could also have 5 m of straight cable.	Two options < 65 A or < 300 A

NB City  
UL



Model	BASIC	ADVANCED	PROFESSIONAL
AC input [V]	208 (L1, L2, PE) / 240 (L1, L2, PE) / 277 (L1, N, PE)		
Maximum output power per connector [kW]	6.7 / 7.7		
Energy measurement	Internal energy measurement		
	-	-	Revenue meter <sup>[1]</sup>
	Wifi		
Communications	-	-	3G/4G connectivity
	Ethernet		
	OCPP 1.6		
Authentication	RFID card reader		
Protections	-	CCID	CCID
	-	MCB	MCB
	-	Surge arrester Type 2 <sup>[1]</sup>	Surge arrester Type 2 <sup>[1]</sup>
External enclosure	NEMA 3R		
	White colour (RAL 9016 - microtexture painting)		
	C4 anti-corrosion protection <sup>[2]</sup>		
Glass colour	Black		
Operating temperature	From -13°F to 122°F		
Relative humidity	4% - 95%		
Interface	Status indicator		
Dimensions (W x D x H) [ft]	1.15 x 0.65 x 4.27		
Regulation	UL 2594, FCC Part 15 Class B, NEC 625		

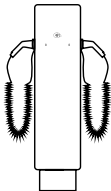
STANDARD MODELS	FRAME AC INPUT [V]	MODEL	REFERENCE	TYPE OF CONNECTOR
	208 / 240 (L1, L2, PE)	BASIC	NBCUB28	2 x AC Type 2 (Plug - 13.1 ft spiral)
		ADVANCED	NBCUA28	2 x AC Type 2 (Plug - 13.1 ft spiral)
		PROFESSIONAL	NBCUP28	2 x AC Type 2 (Plug - 13.1 ft spiral)
	277 (L1, N, PE)	PROFESSIONAL	NBCUP38	2 x AC Type 2 (Plug - 13.1 ft spiral)

AVAILABLE OPTIONS	<b>Cable length</b> Normally is 13.1 ft of spiral, but you could also have 18 ft of straight cable	<b>Dynamic power control</b> One option < 300 A
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NOTES

[1] Not included in models at 277 V (input voltage).  
[2] C3 anti-corrosion protection for stainless steel enclosure.

NB City  
IEC



Model	BASIC	ADVANCED	PROFESSIONAL
AC input [V]	400 (3ph + N +PE)		
Maximum output power per connector [kW]	22.2		
Energy measurement	Internal energy measurement		
	-	-	MID meter
	Wifi		
Communications	-	-	3G/4G connectivity
	Ethernet		
	OCPP 1.6		
Authentication	RFID card reader		
Protections	-	RCD Type A	RCD Type A
	-	MCB	MCB
	-	RCM	RCM
	-	Surge arrester Type 2	Surge arrester Type 2
External enclosure	IP54 / IK10 (IK08 for ventilation grilles)		
	White colour (RAL 9016 - microtexture painting)		
	C4 anti-corrosion protection <sup>[1]</sup>		
Glass colour	Black		
Operating temperature	From -25°C to 50°C		
Relative humidity	4% - 95%		
Interface	Status indicator		
Dimensions (W x D x H) [mm]	350 x 200 x 1300		
Regulation	IEC 61851-1, IEC 61000-6-2, IEC 61000-6-3		

STANDARD MODELS	BASIC	MODEL	REFERENCE	TYPE OF CONNECTOR
			NBCHB46	2 x AC Type 2 (Plug - 4 m spiral)
	ADVANCED		NBCHB47	2 x AC Type 2 (Socket)
			NBCHA46	2 x AC Type 2 (Plug - 4 m spiral)
	PROFESSIONAL		NBCHA47	2 x AC Type 2 (Socket)
			NBCHP46	2 x AC Type 2 (Plug - 4 m spiral)
			NBCHP47	2 x AC Type 2 (Socket)
	PROFESSIONAL		NBCHP47	2 x AC Type 2 (Socket)

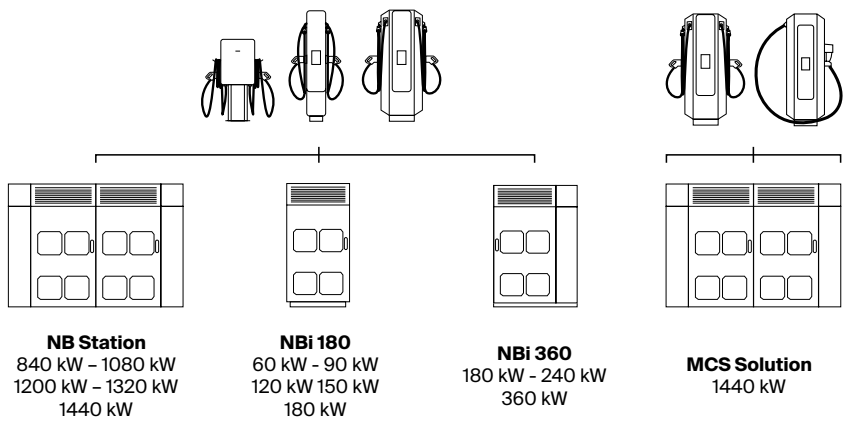
AVAILABLE OPTIONS	<b>Cable length</b> Normally is 4 m of spiral, but you could also have 5 m of straight cable.	<b>Dynamic power control</b> Two options < 65 A or < 300 A
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NOTES

[1] C3 anti-corrosion protection for stainless steel enclosure.



# Applications



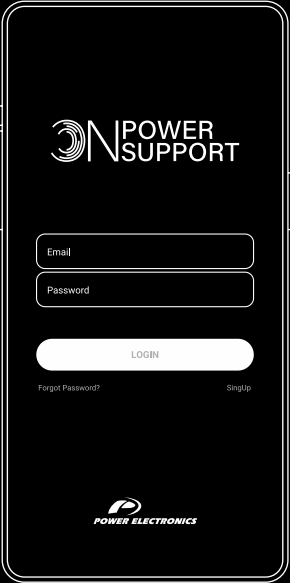
RESIDENTIAL	Houses or apartment garages where low power charging is required. Typically overnight.				
DESTINATION	Few hours charging taking advantage of another leisure activity such as restaurants, shopping centers or hospitals (or night charging in the case of hotels).				
FLEETS	Charging solutions for vehicle rental companies, corporate fleets or public service fleets such as garbage collection, police, etc.	×	×	×	
WORKPLACES	Office buildings and business centers. Charging during the working hours.				
SERVICE STATIONS	Normally located on highways and freeways, but also in metropolitan areas.	×	×	×	×
HEAVY-DUTY VEHICLES	For buses and trucks. They can be in depots (overnight charging to be operational the next day) or on route (fast charging by pantograph on its usual travel route).	×	×	×	×



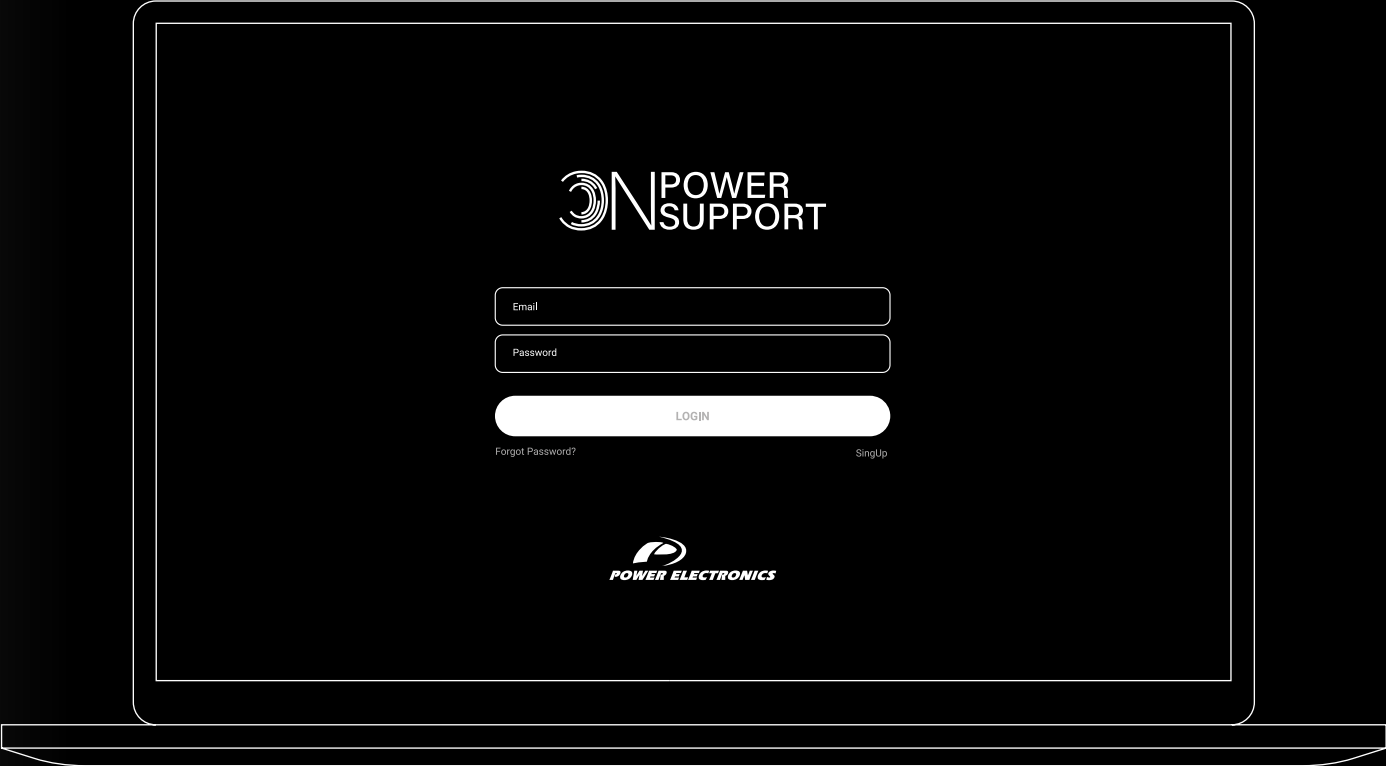
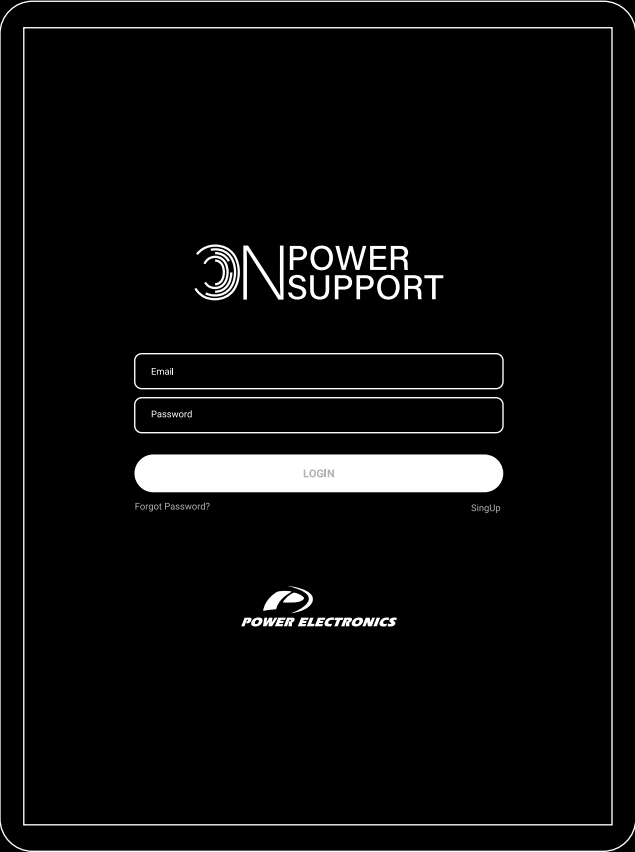
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Our secret. The key of our success for more than 35 years, our 24/7 after sales service, Power On Support.

# Power ON Support



**Download Power on Support** from any device and get easily all the information about your equipment. Request assistance through the app and our team will be there in less than 48 hrs. Get updates of your assistance details, and check the history of your assistances.





**We take care of the legacy generations.** Each new generation of **EV Chargers** involves adapting the manufacturing lines to optimize the production of these new units. Power Electronics has optimized facilities for the production of previous generation units, where we manufacture ongoing subcomponents adapted to equipment that is no longer in production, allowing an extended life.

**Long Term Service.** We repair subcomponents in our Dedicated Service Factory located near our Production Plant. Power Electronics is involved in the entire development process, we design and manufacture state-of-the-art equipment adapting our service so as not to allow on-site units to get obsolete over time, while providing all the advantages of the latest **EV Chargers**.



We are here  
to help you

# Vertical Integration throughout the entire process.

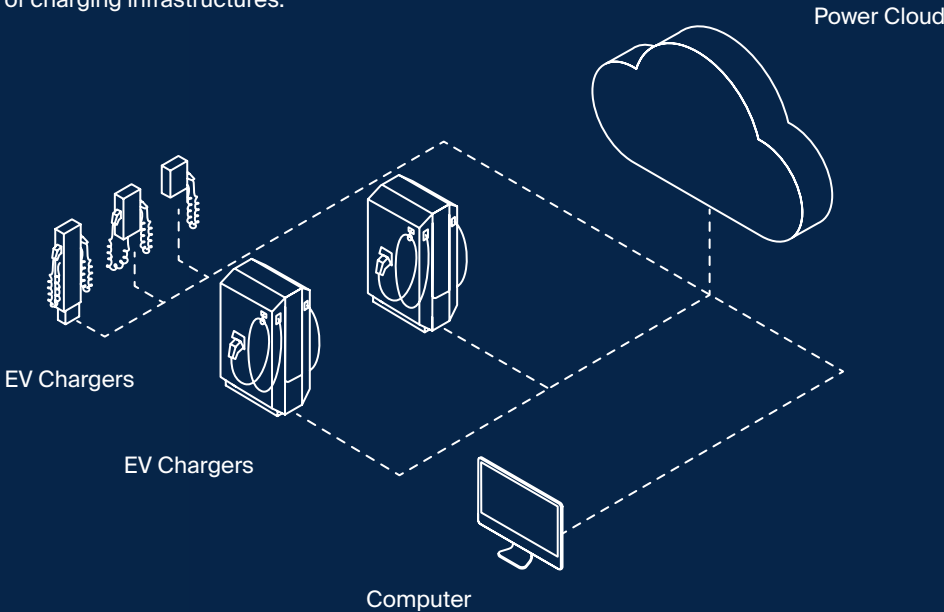
Vertical integration is one of our key values. We look after the entire value chain, from design to the on-site commissioning of the products, going through the accurate development of all the power electronics inside our **EV chargers**.

BEFORE COMMISSIONING	<ul style="list-style-type: none"><li>– Technical application &amp; design requirement review.</li><li>– Dedicated Project Management Support.</li><li>– Hands on functional &amp; safety product training.</li></ul>
DURING COMMISSIONING	<ul style="list-style-type: none"><li>– Dedicated commissioning teams.</li><li>– Rigorous execution through site operation.</li></ul>
AFTER COMMISSIONING	<ul style="list-style-type: none"><li>– Support 24/7, 365 days a year.</li><li>– Full warranty coverage with options for extension and full preventative maintenance packages.</li><li>– Advanced remote monitoring, detailed performance reporting, and interactive portals for tracking metrics directly with Power Electronics.</li></ul>

A cloud-based platform, with a user friendly and intuitive dashboard to manage, operate and monitor a network of EV chargers in a reliable and cost-effective way.

# Power Cloud

Power Cloud covers all the needs of operators and owners of charging infrastructures.



A multi-connected software able to give you all the information about your EV chargers. Find all the information about the remote chargers' configuration and the remote software upgrade. Real time monitoring of your equipment and historical statistics report. Access to your user profile and manage any issue from there. Receive real time notifications and start optimizing your charging stations.



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NOTES

WARRANTY

Power Electronics (the Seller) warrants that their Products are free of faults and defects for a period of 3 years, valid from the date of delivery to the Buyer. It shall be understood that a product is free of faults and defects when its condition and performance is in compliance with its specification.

The warranty shall not extend to any Products whose defects are due to (i) careless or improper use, (ii) failure to observe the Seller’s instructions regarding the transport, installation, functioning, maintenance and the storage of the Products, (iii) repairs or modifications made by the Buyer or third party without prior written authorization of the Seller, (iv) negligence during the implementation of authorized repairs or modifications, (v) if serial numbers are modified or illegible, (vi) anomalies caused by, or connected to, the elements coupled directly by the Buyer or by the final customer, (vii) accidents or events that place the Product outside its storage and operational specification, (viii) continued use of the Products after identification of a fault or defect.

The warranty excludes components that must be replaced periodically such as fuses, lamps & air filters or consumable materials subject to normal wear and tear.

The warranty excludes external parts that are not manufactured by the Seller under the brand of Power Electronics.

The Seller undertakes to replace or to repair, himself, at their discretion, any Product or its part that demonstrates a fault or defect, which is in conformance with the aforementioned terms of the warranty. Reasonable costs associated with the disassembly/ assembly, transport and customs of equipment will also be undertaken by the Seller except in cases of approved intervention by the Buyer and/or their representative where cost allocation has been previously agreed.



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