

NB 100 / NB 120

UP TO 4 VEHICLES CHARGING AT THE SAME TIME USER-FRIENDLY INTERFACE SMART FLEET MANAGEMENT BUS PLUS READY BACK-OFFICE INTEGRATION OCPP 1.6

DC STAND-ALONE CHARGER

NB 100 / NB 120 is an outdoor, robust and attractive charger, which allows the simultaneous charging of four vehicles with output power of up to 100 kW in DC (120 kW in US) and 22 kW in AC (7.7 kW in US). NB 100 / NB 120 can be set to charge at 400 or 800 Vdc depending on the battery characteristics of the electric vehicle. Its smart design offers an easy, fast and safe charging experience, which makes it the best solution for sites where it is required a combination of design, high power and innovation.

UP TO 4 VEHICLES CHARGING AT THE SAME TIME

NB 100 / NB 120 has been designed to obtain the maximum income with a stand-alone charger.

Connector types

Each charger can install up to four connectors per post, allowing four vehicles to be charged simultaneously (2 in DC and 2 in AC). The charger is compatible with the most extended DC connectors (CCS and CHAdeMO) and AC connectors.





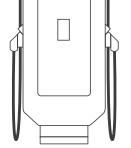
dc connector



DC CONNECTOR



ac connector **Type 1**



AC CONNECTOR Type 2

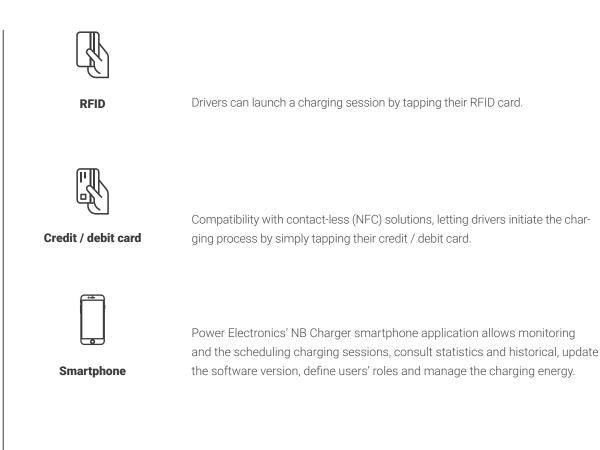
USER-FRIENDLY INTERFACE

Intuitive experience

With a user-friendly interface, the 10" display allows an optimal user experience and the visualization of statistics of the charging processes. Power Electronics posts integrate a status indicator so that the drivers can easily identify its availability. It provides drivers a fast, safe and simple interaction.

Payment and authentication system

Every charging post is compatible with the most extended payment and authentication systems, offering the most useful solutions in the market for an easy interaction with the customer.



SMART FLEET MANAGEMENT

Power Electronics has developed the most advanced functionality for power balancing in vehicle fleet management. Designed to minimize the initial investment and the operation costs.

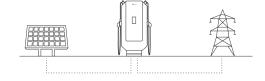
Smart Fleet Management functionality is able to balance the power based on the number of charging posts in use. Therefore, the total power required to supply the total energy gets substantially reduced, representing a cost reduction in the electrical facility infrastructure and a cost saving due to a minor power contracted. Besides, the hardware and the backoffice communication is optimized.

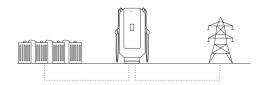
Total power available 100%



BUS PLUS READY

NB 100 / NB 120 can connect to a DC power supply to provide electric vehicle charging power. The power source could be the photovoltaic energy, a battery system or the utility grid.







SMART AND CUSTOMIZABLE DESIGN

EXACTLY THE WAY YOU WANT

Customizable external enclosures

Power Electronics offers customizable external enclosures. Customize your charging post with branded labels that feature clients logos, texts and advertisement.

Graphic advertising

NB 100 / NB 120 offers the option of installing an advertising panel on the back of the equipment.

AC charging

It is possible to include an AC Type 1 or 2 charging connector, which allows a charging power up to 22 kW or 7.7 kW in US.



EXAMPLES OF POST CUSTOMIZATIONS





NB 100

DC OUTPUT (default)	Power [kW]	100
	Voltage range [V]	50 - 500 / 150 - 1000
	Current [A]	250
	Available connectors	CCS- 2 ^[1] , CHAdeMO
AC OUTPUT (option)	Power [kW]	22
	Voltage range [V]	400 ± 10 %
	Current [A]	32
	Available connectors	AC Type 2 ^[1]
AC INPUT FOR DC OUTPUT	Power [kW]	106
	Voltage [V]	400 ± 10 %
	Current [A]	152
	Power factor	> 0.99
	Frequency [Hz]	50 / 60
	Efficiency	94 % (preliminary)
GENERAL	Interface	10" touchscreen
	_	Emergency-stop (optional)
	_	Status LED indicator
		Credit / debit card reader compatibility (optional)
		RFID card reader (optional)
	Protections	Isolation monitor
	_	RCD Type A ^[2]
	_	MCB
		Surge arrester (optional): Type 2 / Type 1+2
	Others	Smart Fleet Management
		MID meter (optional) 🛛
	Cable length (m) [4]	4
	Number of connectors	Up to 4
	Enclosure colour	White (RAL 9016 - microtexture painting) / Black glass
	Customization	Enclosure / Foot / Glass / Logo / Display
	Advertising	Back side
	Degree of protection	IP54 IK10 ^[5]
	Operating temperature	From -25°C to 50°C
	Relative humidity	4% - 95%
	Maximum altitude (above sea level)	2000 m; > 2000 m power derating (max. 3000 m)
	Communications	Ethernet
	_	OCPP 1.6
	_	Wifi (optional)
	_	Wifi + 3G / 4G connectivity (optional)
		Ethernet switch (optional)
	Dimensions (W x D x H) [mm]	870 x 790 x 1800
	Regulation	IEC 61851-1, IEC 61851-23, IEC 61851-24, IEC 61000-6-2, IEC 61000-6-3

AVAILABLE DC CONNECTORS







CHAdeMO

AVAILABLE AC CONNECTORS



AC Type 2

NB 120

DC OUTPUT (default)	Power [kW]	120
	Voltage range [V]	50 - 500 / 150 - 1000
	Current [A]	250
	Available connectors	CCS-1, CHAdeMO
AC OUTPUT (option)	Power [kW]	6.7 - 7.7
	Voltage range [V]	208 / 240 ± 10 %
	Current [A]	32
	Available connectors	AC Type 1
AC INPUT FOR DC OUTPUT	Power [kW]	128
	Voltage [V]	480 ± 10 %
	Current [A]	152
	Power factor	> 0.99
	Frequency [Hz]	60
	Efficiency	94 % (preliminary)
GENERAL	Interface	10" touchscreen
		Emergency-stop (optional)
		Post status LED indicator
		Credit / debit card reader compatibility (optional)
		RFID card reader (optional)
	Protections	Isolation monitor
		RCD Type A ^[1]
		MCB
		Surge arrester (optional): Type 2 / Type 1+2
	Others	Smart Fleet Management
		Revenue meter (optional) [2]
	Cable length [ft] ^[3]	13.12
	Enclosure colour	White (RAL 9016 - microtexture painting) / Black glass
	Customization	Enclosure / Foot / Glass / Logo / Display
	Advertising	Back side
	Degree of protection	NEMA 3R
	Operating temperature	From -25°C to 50°C
	Relative humidity	4% - 95%
	Maximum altitude (above sea level)	2000 m; > 2000 m power derating (max. 3000 m)
	Communications	Ethernet
		OCPP 1.6
		Wifi (optional)
		Wifi + 3G / 4G connectivity (optional)
		Ethernet switch (optional)
	Dimensions [ft]	2.85 x 2.60 x 5.90
	Regulation	UL 2202, UL 2594, NEC 625, FCC Part 15 Class A

AVAILABLE DC CONNECTORS



CCS-1

CHAdeMO

AVAILABLE AC CONNECTORS



AC Type 1