



NB City

USER-FRIENDLY INTERFACE

SMART FLEET MANAGEMENT

DYNAMIC POWER CONTROL

BACK-OFFICE INTEGRATION OCPP 1.6

THE BEST SOLUTION FOR SMART CITIES

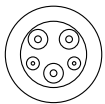
NB City is a robust and attractive outdoor AC charging system, making it ideal for “smart” cities. It has been designed with durability, reliability and ease of maintenance in mind. With output power of 2 x 22 kW (2 x 7.7 kW in US), NB City is compatible with AC Type 1 and 2 connectors.

Its smart design offers a simple, fast and easy charging experience, which makes NB City the best AC charging solution for applications that require maximum urban integration with the most advanced functionalities.

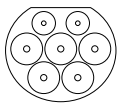
MULTIPLE CONNECTION OPTIONS

NB City has been designed to offer the most flexible charging solution to be installed in smart cities.

NB City is compatible with Type 1 and 2 AC connectors with outlet socket options or versions with straight and spiral cables.



AC Type 1



AC Type 2

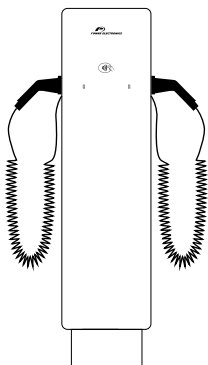
OUTLET SOCKET VERSION

2 x Type 2



HARD-WIRED VERSION

2 x Type 1 or 2 x Type 2



USER-FRIENDLY INTERFACE

Intuitive experience

NB City has a smartphone app to facilitate the interaction with the user. Optionally, it can install a display that allows the visualization of the charging process. Power Electronics chargers integrate a state indicator so that the drivers can easily identify its availability.

Payment and authentication system

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



Bluetooth

Presence recognition through bluetooth connectivity.



RFID

Drivers can launch a charging session by tapping their RFID card.



Credit / Debit card

Compatibility with contact-less (NFC) solutions, letting drivers initiate the charging process by simply tapping their credit/debit card.



Smartphone

Power Electronics' NB Charger smartphone application allows monitoring and the scheduling charging sessions, consult statistics and historical, update the software version, define users' roles and manage the charging energy.

ENERGY MANAGEMENT

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

Smart Fleet Management

This 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

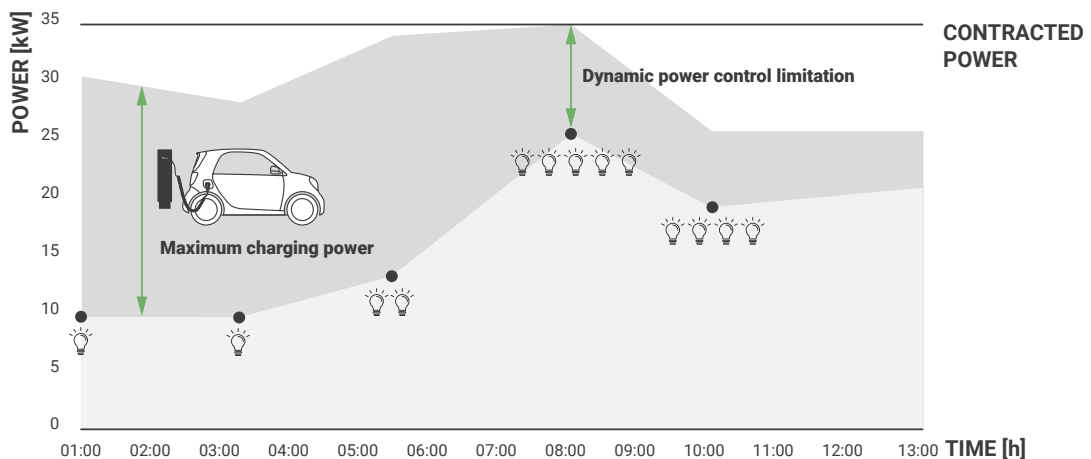
facility infrastructure and a cost saving due to a minor power contracted. Besides, the hardware and the back-office communication is optimized.



Dynamic Power Control

This optional device ensures dynamic adaptation of the power being used to charge the vehicle in accordance with the

energy being consumed by other electrical loads in the facility, without having to increase contractual power capacity.



SMART AND CUSTOMIZABLE DESIGN

Customizable external enclosures

Power Electronics offers customizable external enclosures. The color can be changed or logos and advertising can be added. Optionally, a panel for advertising can be included on the back of the charger.



NB CITY

IEC

Model	ADVANCED	PROFESSIONAL
AC input [V]	400 (3ph)	
Maximum output power per connector [kW]	22.2	
Energy measurement	Internal energy measurement	
	-	MID meter
Energy management	Smart Fleet Management	
Communications	Wifi	
	-	3G/4G connectivity
	Ethernet	
	OCPP 1.6	
Authentication	Bluetooth	
	RFID card reader	
Protections	RCD Type A	
	MCB	
	-	RCM
External enclosure	IP54 / IK10 (IK08 for display and ventilation grilles)	
	White colour (RAL 9016 - microtexture painting)	
	C4 anti-corrosion paint ^[1]	
Glass colour	Black	
Operating temperature	From -25°C to 50°C	
Relative humidity	From 4% to 95%	
Interface	NB Charger App - Status indicator - Time schedule	
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

MODEL	REFERENCE	TYPE OF CONNECTOR
ADVANCED	NBCHA46	2 x AC Type 2 (Plug - 3 m)
	NBCHA47	2 x AC Type 2 (Socket)
PROFESSIONAL	NBCHP46	2 x AC Type 2 (Plug - 3 m)
	NBCHP47	2 x AC Type 2 (Socket)

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

AVAILABLE OPTIONS**IEC**

ENCLOSURE	Customizable enclosure colour
	Customizable foot colour
	Customizable glass colour
	Stainless steel AISI 316L (2B)
	PE logo substitution
	Extra logo
CONNECTION CONFIGURATION	Advertising (back side)
	4 m cable (spiral)
	5 m cable (straight)
	Anti-vandalism system (socket outlet)
PROTECTIONS	Connector locker
	Surge arrester Type 2
	Surge arrester Type 1+2
INTERFACE	RCD Type A with automatic reset ^[1]
	Display
ENERGY MANAGEMENT	Dynamic Power Control (< 65 A)
	Dynamic Power Control (< 100 A)

[1] Optional for Professional models.

NB CITY

US

Reference	NBCUA28
AC input [V]	208 Vac or 240 Vac single-phase: L1, L2 and earth
Maximum output power per connector [kW]	6.7 o 7.7
Connector	2 x AC Type 1 (12 ft)
Energy measurement	Internal energy measurement
Energy management	Smart Fleet Management
Communications	Wifi
	3G/4G connectivity
	Ethernet
	OCPP 1.6
Authentication	Bluetooth
	RFID card reader
Protections	CCID
	MCB
External enclosure	NEMA 3R - White colour (RAL 9016 - microtexture painting) - C4 anti-corrosion paint ^[1]
Glass colour	Black
Operating temperature	From -13°F to 122°F
Relative humidity	From 4% to 95%
Interface	NB Charger App - Status indicator - Time schedule
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

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

AVAILABLE OPTIONS

US

ENCLOSURE	Customizable enclosure colour
	Customizable foot colour
	Customizable glass colour
	Stainless steel AISI 316L (2B)
	PE logo substitution
	Extra logo
CONNECTION CONFIGURATION	Advertising (back side)
	13.1 ft cable (spiral)
	18 ft cable (straight)
PROTECTIONS	Connector locker
	Surge arrester Type 2
INTERFACE	Surge arrester Type 1+2
	Display
ENERGY MANAGEMENT	Revenue meter
	Dynamic Power Control (< 65 A)
	Dynamic Power Control (< 100 A)