



# ProWallbox

Product Description

Smart charging made with an all-purpose product, offering the highest value-for-money in the market

**eProWallbox** is developed and designed in Italy

**Extensive power range**

**eProWallbox** is a flexible charging station operating up to 22 kW in three-phase configuration

**The smartest AC charger for a wide range of needs**

**eProWallbox** offers a broad range of connectivity options for residential, fleets and parking needs

**User-friendly interface**

Thanks to its touch display, **eProWallbox** can provide charging session information in real-time

**Dedicated app & full interoperability**

**eProWallbox** has a dedicated mobile app and is compatible with most back-ends available on the market

**Online & offline smart operation**

**eProWallbox** is designed to work both as a stand-alone smart device or in a group configuration







### A wide range of connectivity options

**eProWallbox** integrates the best connectivity features to provide a smart control both to users and fleet managers, including **internet connection provided via 4G or Wi-Fi**.



### Over-The-Air remote software upgrade

**eProWallbox** is enabled for remote software updates. This feature will **minimize the needs of physical intervention**, and allowing the addition of new features and future proofing of the device.



### Identification Access Management (IAM)

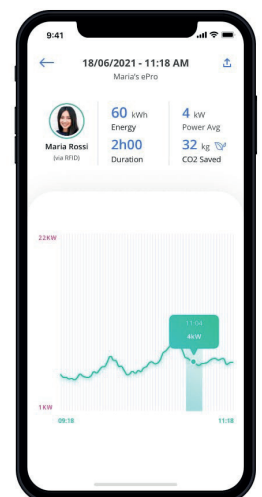
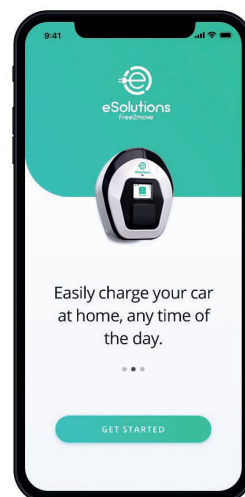
**eProWallbox** is a **cost-effective, flexible and upgradable solution for fleets and B2B clients** thanks to a wide range of IAM options the customer can be authorized for charging through an **RFID card** (fob on request) or with the **eSolutions Charging App**.



### Advanced back-end functionalities including smart charging

**eProWallbox** integrates OCPP, the most diffused application protocol for communication between charging stations and a central management system.

As **eProWallbox** is OCPP 1.6, it will be also **compatible with most of commercial back-end platforms**, providing the charging station owner with different choices to monitor the asset and use advanced features such as smart charging.





## Load management functionalities

**eProWallbox** integrates an updated **Dynamic Power Management (“DPM”)**, feature, a smart function that modulates the charging process according to the available power, **avoiding unpleasant blackouts**.

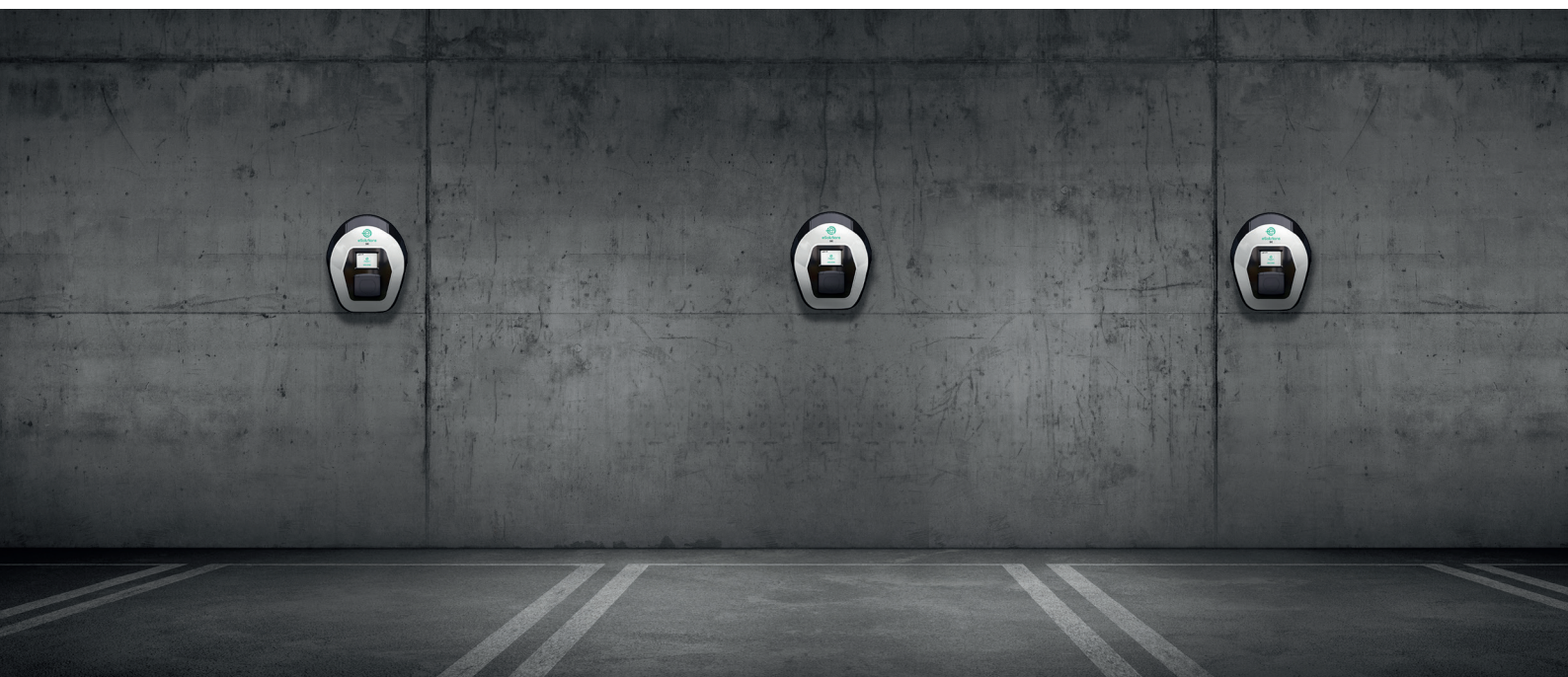
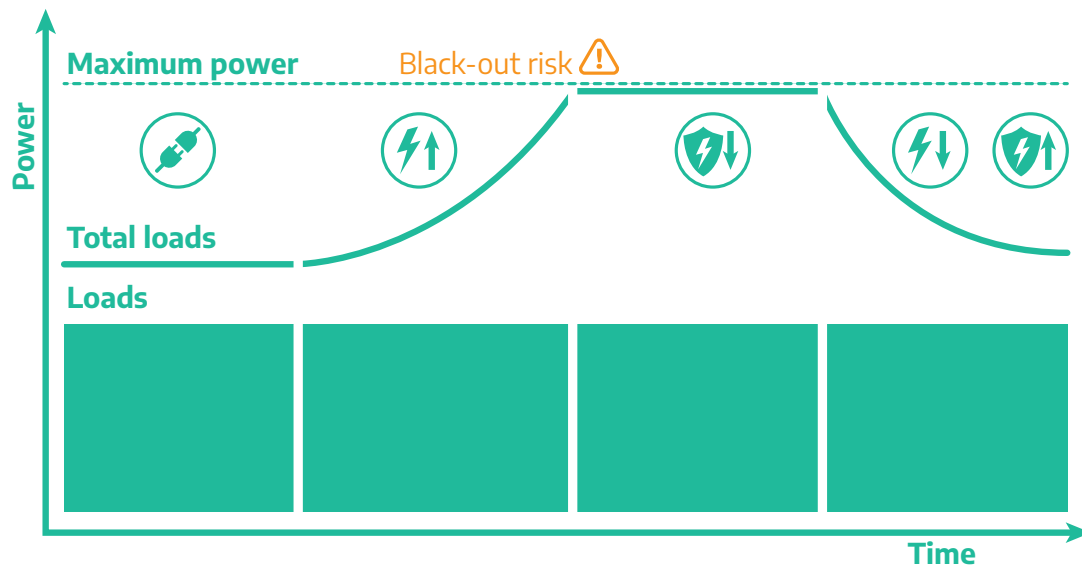
DPM acts by limiting the current absorbed by the charging stations, based on the maximum absorbable current allowed by the power supplier and considering the other loads connected to the same point of delivery. DPM is implemented through an external meter.



## Best-In-Class robustness

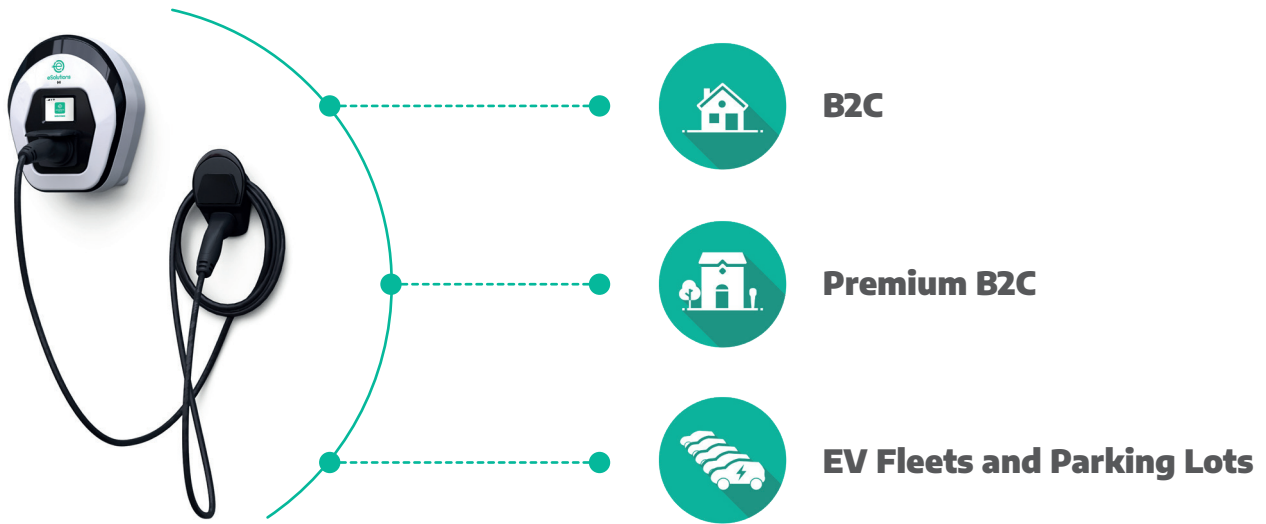
The design for outdoor environments ensures **long-lasting and safe operation**, thanks to an IP55 enclosure.

Thanks to its covered socket with built-in protective shutter, **eProWallbox** is well **protected against accidental or intentional access** and damage.





# eProWallbox is designed to best adapt to users' and service provider's needs, mixing different technologies on a single platform



**eProWallbox** ensures an innovative user experience for B2C and premium B2C customers, providing **EV charging up to 22 kW** and **integrating advanced functionalities**.

It can be **quickly installed**, either wall mounted or on its dedicated stall.

Thanks to **Dynamic Power Management “DPM”** feature, the **maximum charging power can be set at different levels**, according to the available grid power availability.

Through the **eSolutions Charging App**, the customer can **manage eProWallbox remotely**, starting and stopping a session, scheduling, monitoring it and more.



**eProWallbox** is ideal for **charging EV fleets**, both those composed by a **single EV model** or **multiple EV models**

Thanks to **RFID technology** and its safe and secure design, **eProWallbox** can be installed also in open garages or in condominium car parking, eventually used as a **shared condominium asset**.

Thanks to its **internal metering**, the system **collects charging data** from each charging session and **elaborates them**.





## Technical specification

### eProWallbox

#### Description

Recharging Mode	Mode 3 - case B	Mode 3 - case C
Connector Standard	IEC 62196-2 Type2	
Connection features	Socket with lid and internal shutter	Tethered cable
CE Mark	✔	

#### General Specs

Dimensions	403x336x190mm
Weight	~ 3.8 kg (without cable)
Protection degree	IP55 (IEC 60529)
Impact protection rating	IK08 (IEC 62262)
Housing	UV resistant plastic
Standard body color	Black - RAL 9011 White - RAL 9003
Custom body color	✔ Optional
Custom branding	✔ Optional

#### Electrical Specs

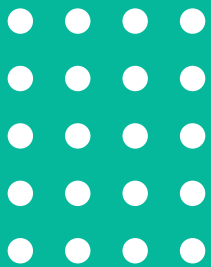
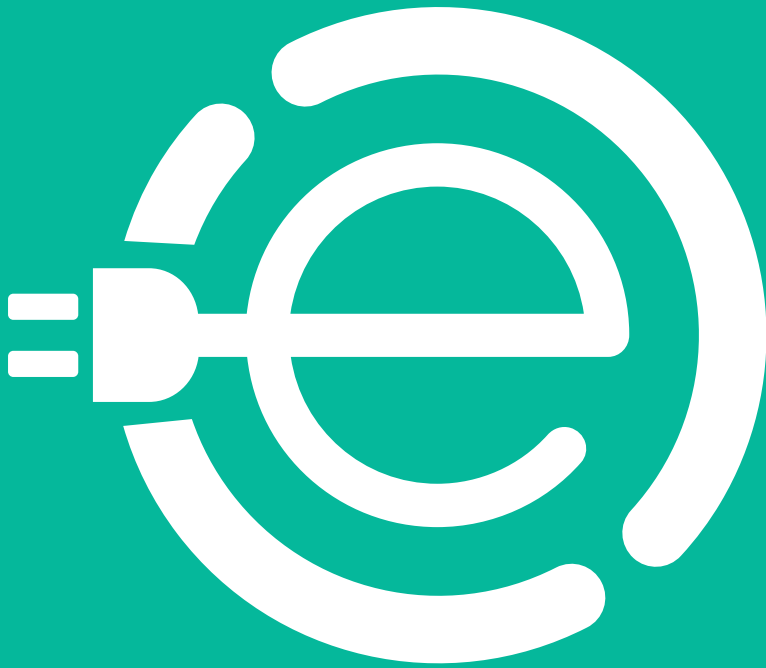
Power [kW]	Up to 7.4 single-phase Up to 22 three-phase
Voltage [V/Hz]	230 / 50-60 single-phase 400 / 50-60 three-phase
Current [A]	Up to 32
Electrical installation	3P + N + PE, 32A, 400 V / 50-60 Hz P + N + PE, 32 A, 230 V / 50-60 Hz
AC power system	TT, TN, IT

#### Safety and Operation

Operating Temperature range [°C]	-25°C/+50°C (without direct exposure to sunlight)
Overheating protection	✔
Humidity Resistance	< 95% (non condensing)
Housing fire ratings	UL94 V-0   GWFI 960
Overvoltage category	OVC III
Residual current monitoring	✔ 6 mA DC sensitive RCM device included for DC-leakage
Maximum installation height [m]	2000 a.s.l.
Mounting	Wall or optionally on a dedicated pole

#### Connectivity and Features

RS-485 Modbus RTU	✔
Ethernet	✔
Bluetooth LE 4.0	✔
Wi-Fi	✔
4G / LTE	✔
OCPP 1.6	✔
Mobile App	✔
RFID reader	✔
HMI	✔ 3.5" TFT touchscreen display
Over-the-air SW upgrade	✔
Energy Meter (built-in)	✔ not MID ✔ Static
Load management (Static and Dynamic)	✔ Dynamic w/ Ext. Sensor 1 ph (Opt. If requested) ✔ Dynamic w/ Ext. Sensor 3 ph (Opt. If requested)
ISO 15118	✔
Current phase unbalancing detection	✔
CPMS	✔



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