peblar ROCKSOLID CHARGERS

Unleash the Power:
Introducing Peblar

Information Leaflet

Ready for the Future

As life gets more complex, tech should get easier. That's why we build EV chargers that are robust, easy to use and future-ready. Backed by our parent company Prodrive Technologies, we have everything in-house to fuel your future.

Peblar chargers all come with the same robustness, ease of use and security. They're ready for the future of connectivity and can be installed by an installer in under 30 minutes.

Aesthetic Design

Made to accessorise and fit in with your exterior

Rocksolid Build

Only a limited amount of cables and elements

Safe & Secure

Following the highest market standards

Quick Installation

Set up by an installer in less than 30 minutes

Built to Last

Peblar is robust and hard to break

Easy to Use

Charge intuitively, without a manual

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EV Chargers

Features	Peblar Home	Peblar Home Plus	Peblar Business
Number of phases	1 phase / 3 phase	1 phase / 3 phase	1 phase / 3 phase
Maximum power	3.7 kW / 11 kW	7.4 kW / 22 kW	7.4 kW / 22 kW
Port type	Fixed cable 5m / Fixed cable 7.5m	Fixed cable 5m / Fixed cable 7.5m	Socket
Local web interface connectivity	WiFi, Ethernet	WiFi, Ethernet	WiFi, Ethernet
Display	✓	✓	✓
RFID authentication	✓	✓	✓
Group load balancing	✓	✓	✓
Dynamic load balancing	✓	✓	✓
Scheduled charging	✓	✓	✓
Solar charging ready	✓	✓	✓
Energy meter	Indicative	MID	MID / Eichrecht (optional)
Back office connectivity	OCPP 1.6-J over Ethernet, WiFi	OCPP 1.6-J over Ethernet, WiFi, mobile network (2G / 4G)	OCPP 1.6-J over Ethernet, WiFi, mobile network (2G / 4G)
ISO 15118 plug and charge ready	-	-	✓

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Detailed Specification List

General

Charger Type	IEC 61851-1 AC mode 3
EV Plug Connection	IEC 62196 Type 2 cable (Home, Home Plus) IEC 62196 Type 2 socket (Business)
Rated (Output) Current	16 A (Home) 32 A (Home Plus, Business)
Rated Voltage	230 V AC (1-phase) 400 V AC (3-phase)
Maximum Power	3.7 kW / 11kW (Home) 7.4 kW / 22 kW (Home Plus, Business)
Rated Frequency	50 Hz
Dimensions (H x W x D, excl. cable)	387 x 207 x 128 mm
Weight (excl. cable)	Approx. 2.9 kg
Charging cable length	5 m or 7.5 m (Home, Home Plus)
User interface	Multicolor LED, buzzer, display
Intended use	Residential, commercial, and industrial applications

Charger Dimensions

Safety

Current Leakage	6 mA DC earth leakage protection
Safety Class	Class I
Overvoltage Category	Category III

Authorization

Authorization Methods	RFID (Mifare classic & Mifare DESfire)	NFC	None
ISO 15118 Plug and Charge	Business only*		

Environmental

Operating Temperature	-30 °C to +50 °C
Ambient Storage Temperature	-40 °C to +85 °C
Relative Humidity Range	5% to 95%
Maximum Operating Altitude	3000 m
IP Rating	IP54
IK Rating	IK10

Installation

Installation Location	Indoor and outdoor usage
Main Connection	Permanent mains connection only
Installation Type	Stationary equipment. Wall or pole surface mounted

Connectivity

WLAN	2.4 GHz with WPA2
Fixed Network	Ethernet 100 Mbit
Cellular	LTE Cat-M1, NB-IoT, GPRS (Home Plus, Business)
SIM Size	Nano-SIM (4FF)

Supported Protocols

Vehicle Communication	IEC 61851-1 ISO 15118* (Business)
Back-end Communication	OCPP 1.6-J OCPP 2.0.1*
Firmware Update	Locally via web interface Over-the-air via OCPP

Charging Strategies

*Available in the future via an over-the-air software update

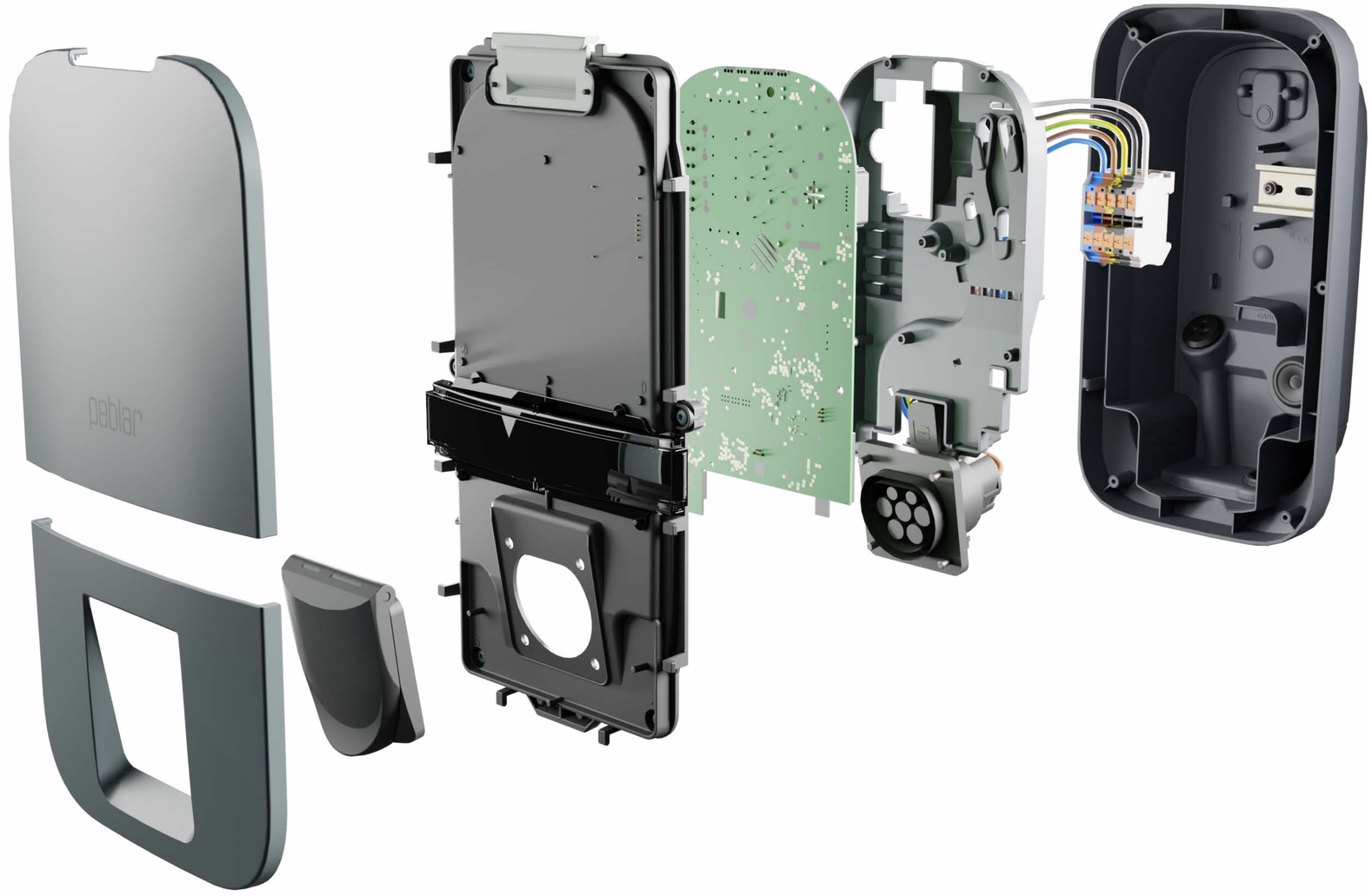
Scheduled Charging	Locally via Web interface Over-the-air via OCPP 1.6-J	
Dynamic Load Balancing	Hardwired via CTs Local with HomeWizard P1 dongle	Hardwired via Modbus RTU meter* Hardwired via Modbus TCP meter
Group Load Balancing	RS-485 (leader or follower)	
Solar Charging	Local with HomeWizard P1 dongle	Hardwired via Modbus TCP meter (selected types)

Energy Meter

Energy Meter Class	Class B (Home Plus, Business)
Certification	MID certified (Home Plus, Business) Eichrecht module B / D certified, optional (Business)

A Look Under the Hood

When designing our EV charger, we didn't choose between safety, robustness and aesthetics. We wanted you to have it all.



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Charger Accessories

Load Balancing Kit

Our load balancing kit (also known as CT coils) is a hardware add-on that prevents a blackout by ensuring that you don't exceed the maximum current available in your household. The kit works throughout Europe.

Single Pole

Mounting options:

- Floor
- Ground

We offer rock-solid single poles that are easy to install. Hard to break; easy on the eyes. Choose between floor and ground mounting options, designed to the surface hardness, whether it be concrete or earth.

Dual Pole

Mounting options:

- Floor
- Ground

Our dual pole allows you to simultaneously charge two electric vehicles from a single charging pole. Choose between floor and ground mounting options, designed to the surface hardness, whether it be concrete or earth.

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Technology Partners

Supported sources for load balancing and solar charging

Head over to our website to view supported back offices

Supported back offices

HomeWizard P1 dongle

We support load balancing and charging through HomeWizard. They provide a platform to monitor the energy usage of your household. HomeWizard helps you to improve energy management and reduce costs as a result.

* DSMR 4 or 5 required, older smart meters are not supported. Click here to check if your smart meter is compatible.

Phoenix Contact EMPro

The multifunctional EMpro energy measuring devices acquire your energy data and offer numerous options for communicating the data to higher-level control and management systems. EMPro is a measurement source for black out protection, which is especially useful for group load balacing applications.

Xemex Smart Charge Controller

The Smart Charge Controller (SCC) is an electronic device which is used in conjunction with an EV charging station. It measures the grid current and controls the charge current of the Peblar charger, based on chosen charging strategy. This meter informs the charger about setpoints for maximum charging current at certain moments in time.

Customize Charging Preferences with the Web Interface

With the web interface of Peblar, you have convenient local control over your charger. Simply connect to the charger via Ethernet or WiFi using your device (phone, laptop or tablet) that shares the same local network. Access the following practical functionalities within the web app:

- Monitor real time & historical charging sessions
- Adjust LED preferences and sound settings
- Manage authorization settings / RFID tags (for unmanaged boxes)
- Set personalized charging schedules
- Choose your solar charging method
- Set up network configurations
- Download and install software updates
- Download diagnostics for remote support

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