



# AC Chargers

Detailed specification list

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This document shows the specifications of the two Peblar product lines: Peblar Home, and Peblar Business. The value of certain parameters depends on the configuration which is depicted in between brackets.

### General

<b>Charger type</b>	IEC 61851-1 AC mode 3
<b>EV plug connection</b>	IEC 62196 Type 2 cable IEC 62196 Type 2 socket (Business) IEC 62196 Type 2S socket (Business Shutter)
<b>Rated (output) current</b>	16 A (Home) 32 A (Business)
<b>Rated voltage</b>	230 V AC (1-phase) 400 V AC (3-phase)
<b>Maximum power</b>	3.7 kW / 11 kW (Home) 7.4 kW / 22 kW (Business)
<b>Rated frequency</b>	50 Hz
<b>Dimensions (H x W x D, excl. cable)</b>	387 x 207 x 128 mm
<b>Weight (excl. cable)</b>	Approx. 2.9 kg
<b>Charging cable length</b>	5 m or 7.5 m
<b>User interface</b>	Multicolor LED, buzzer, display, web interface
<b>Intended use</b>	Residential, commercial, and industrial applications

## Safety

<b>Current leakage</b>	6 mA DC earth leakage protection
<b>Safety class</b>	Class I
<b>Overvoltage category</b>	Category III
<b>Protective earth</b>	Ground monitoring
<b>Anti-tampering</b>	Tamper detection

## Authorisation

<b>Authorisation methods</b>	RFID (Mifare classic & Mifare DESfire) NFC No authorisation
<b>ISO 15118 Plug and Charge</b>	Business only*

## Energy meter class & certification

<b>Peblar Home</b>	Indicative energy meter with class B accuracy of $\pm 1\%$ according to EN 50470-3:2006
<b>Peblar Business</b>	MID certified Eichrecht module B / D (optional)

## Environmental

<b>Operating temperature</b>	-30 °C to +50 °C
<b>Ambient storage temperature</b>	-40 °C to +85 °C
<b>Relative humidity range</b>	5% to 95%
<b>Maximum operating altitude</b>	3000 m
<b>IP rating</b>	IP54
<b>IK rating</b>	IK10

## Connectivity

<b>WLAN</b>	2.4 GHz with WPA2
<b>Fixed network</b>	Ethernet 100 Mbit
<b>Cellular</b>	LTE Cat-M1, NB-IoT, GPRS (Business)
<b>SIM size</b>	Nano-SIM (4FF) (Business)

## Supported protocols

<b>Vehicle communication</b>	IEC 61851-1 ISO 15118* (Business)
<b>Back-end communication</b>	OCPP 1.6-J OCPP 2.0.1 *
<b>Firmware update</b>	Locally via web interface Over-the-air via OCPP

## Charging strategies

<b>Scheduled charging</b>	Locally via Web interface, Modbus TCP / REST API Over-the-air via OCPP
<b>Dynamic load balancing</b>	Hardwired via CTs Local with HomeWizard P1 dongle Hardwired via Modbus RTU meter Hardwired via Modbus TCP meter (selected types)
<b>Group load balancing**</b>	RS-485 Ethernet
<b>Solar charging</b>	Local with HomeWizard P1 dongle Hardwired via Modbus TCP or RTU meter (selected types)
<b>Power limitation</b>	Current slider Local control via Modbus TCP / REST API Household power slider
<b>DSO control</b>	Digital inputs

\* Available in the future with an over-the-air firmware update

\*\* A Peblar charger can be configured as leader or as follower.

## Installation

<b>Installation location</b>	Indoor and outdoor usage
<b>Mains connection</b>	Permanent mains connection only
<b>Installation type</b>	Stationary equipment. Wall or pole surface mounted

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