AC Chargers

Detailed Specification List

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This document shows the specifications of the three standard Peblar configurations: Home, Home Plus and Business. The value of certain parameters depends on the configuration which is depicted in between brackets.

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 current	16 A (Home) 32 A (Home Plus, Business)
Rated output current	16 A (Home) 32 A (Home Plus, Business)
Rated voltage	230 V AC (1-phase) 400 V AC (3-phase)
Nominal power	11 kW (Home) 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

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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*

Energy meter

Energy meter class	Class B (Home Plus, Business)
Certification	MID certified (Home Plus, Business)
Eichrecht compliance	Optional (Business)

Environmental

Operating temperature	-30 ºC to +50 ºC
Ambient storage temperature	-40 ºC to +85 ºC
Relative humidity range	5% to 95%
Maximum operating altitude	3000 m
IP rating	IP54
IK rating	IK10

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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

Load Balancing

Scheduled Charging	Locally via Web interface Over-the-air via OCPP 1.6-J
Dynamic	Hardwired via CTs Local with HomeWizard P1 dongle (BeNeLux only) Hardwired via Modbus RTU meter* Hardwired via Modbus TCP meter*
Group load balancing	RS-485 (leader or follower)

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

Installation

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

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Reach out to sales@peblar.com for inquiries.