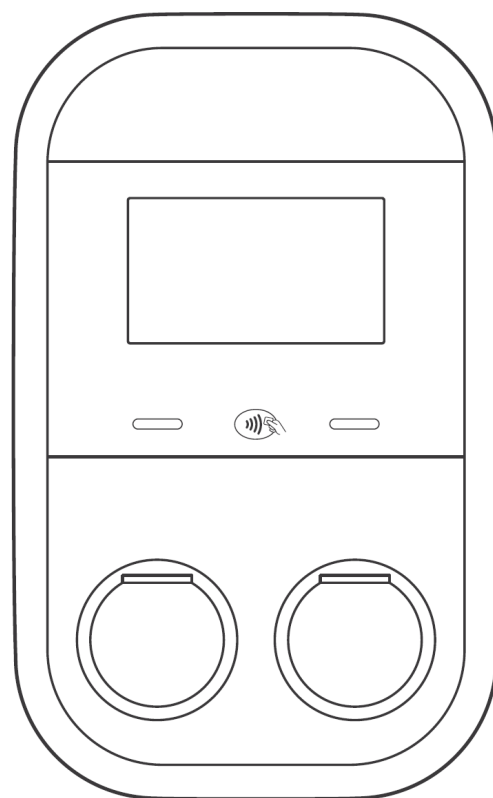




# Dual Charger

## Specification list

## Variants

| Model      | Product name          | MID | MessEV | Socket T2 | Socket T2S |
|------------|-----------------------|-----|--------|-----------|------------|
| DUAL-T2-M  | Peblar Dual           | ✓   |        | ✓         |            |
| DUAL-T2-E  | Peblar Dual Eichrecht | ✓   | ✓      | ✓         |            |
| DUAL-T2S-M | Peblar Dual Shutter   | ✓   |        |           | ✓          |

## Accessories

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Peblar Dual daisy chain kit       | Mains daisy chain up to 16mm²             |
| Peblar Dual SIM card holder       | External mini-SIM card slot (2FF)         |
| Peblar Dual blind cover           | Placeholder for future front installation |
| Peblar Dual pedestal              | Pedestal for floor or ground mounting     |
| Peblar Dual pedestal back-to-back | Pedestal for floor or ground mounting     |

*Note: Accessories to be order separately.*

## General

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Charging mode                 | EN 61851-1 Mode 3, case B                                                         |
| EV charging interface         | 2x Type 2 socket (DUAL-T2-M, DUAL-T2-E)   2x Shuttered Type 2 socket (DUAL-T2S-M) |
| User interface                | Touch screen, Socket status LED, Buzzer, Contactless Card reader                  |
| Ingress protection            | IP54                                                                              |
| Impact protection             | IK10                                                                              |
| Dimensions                    | H: 470 x W: 291 x D: 128mm                                                        |
| Mass                          | 8.4kg                                                                             |
| Ambient operating temperature | -25 / +55°C                                                                       |
| Storage                       | -40 / +70°C                                                                       |
| Altitude                      | 3000m                                                                             |
| Intended use                  | Residential, commercial, and industrial applications                              |

## Electrical

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Rated voltage                       | 230/400V                             |
| Rated output current                | 3ph: 1 x 32A, 2 x 16A   1ph: 2 x 32A |
| Wire cross-section                  | 4-16mm <sup>2</sup> *                |
| Rated impulse withstand voltage     | 4kV                                  |
| Rated frequency                     | 50Hz                                 |
| Maximum ext. overcurrent protection | 100A                                 |
| Earthing systems                    | TT, TN-C, TN-C-S                     |

\* Higher cross -section can be achieved by a junction box inside the pedestal .

## Connectivity

|                         |                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN                    | 2.4GHz Wi-Fi 6 802.11 b/g/n/ax                                                                                                                                          |
| LAN                     | 2x Ethernet 100Mbit   Integrated switch for daisy chain                                                                                                                 |
| Cellular                | LTE Cat 1                                                                                                                                                               |
| SIM                     | Integrated chip SIM with lifetime data *   Mini-SIM (2FF) **                                                                                                            |
| GNSS                    | GPS / GLONASS / BDS / Galileo                                                                                                                                           |
| RS485                   | Modbus RTU                                                                                                                                                              |
| Digital input           | 2x digital input for dry contact monitoring                                                                                                                             |
| Digital output          | 1x dry contact, 50V 1A                                                                                                                                                  |
| Contactless card reader | <b>RFID:</b> <ul style="list-style-type: none"> <li>• ISO14443A (MIFARE Classic, MIFARE DESFire)</li> <li>• ISO14443B (Calypso)</li> <li>• FeLiCa</li> </ul> <b>NFC</b> |

\* Based on fair use policy \*\* Mini-SIM by accessory. When inserted the integrated SIM will be disabled.

## Electrical

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Vehicle communication  | EN 61851-1 Control pilot   ISO 15118-2   ISO 15118-20* |
| Back-end communication | OCPP 1.6J   OCPP 2.1 *                                 |
| EMS communication      | OCPP 1.6J   OCPP 2.1 *   Modbus TCP*   REST*           |

\* Available in the future with firmware update .

## Electrical

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| Internal load balancing           | Load balancing between sockets                                 |
| Group load balancing *            | Local balancing over Ethernet                                  |
| Automatic group phase rotation ** | Local rotation over Ethernet                                   |
| Dynamic (group) load balancing    | Meter options:   - Homewizard P1   - Modbus RTU   - Modbus TCP |
| Scheduled charging                | Local web interface                                            |
| Solar charging                    | Local web interface, OCPP                                      |
| Active power control              | 2x current limit for digital inputs                            |
| QR code payment                   | URL configuration via OCPP                                     |
| Smart charging profile **         | OCPP                                                           |
| Custom logo upload                | OCPP   Local web interface **                                  |

\* One of the chargers in the group is defined as leader and runs the balancing algorithm.

\*\* Available in the future with firmware update.

## Residual current protection AC

|                                    |                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------|
| Type                               | Integrated RCCB type A per socket outlet                                                       |
| Rated current                      | 32A                                                                                            |
| Rated residual operating current   | 30mA                                                                                           |
| Rated making and breaking capacity | 500A                                                                                           |
| Rated short-circuit current        | 10kA                                                                                           |
| Normative standard                 | EN 61008-1:2012<br>+A1:2014+A2:2014+A11:2015+A12:2017<br>IEC 61008-2-2:2024 + IEC 61008-1:2024 |

## Residual current protection DC

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Type                               | Integrated RDC-PD per socket outlet |
| Rated current                      | 32A                                 |
| Rated residual operating current   | 6mA                                 |
| Rated making and breaking capacity | 500A                                |
| Rated short-circuit current        | 10kA                                |
| Normative standard                 | IEC 62955:2018                      |

## Overcurrent protection

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Type                          | Integrated MCB/MCCB shared between outlets                                        |
| Rated current                 | 40A                                                                               |
| Characteristic                | C                                                                                 |
| Nominal short-circuit current | 10kA                                                                              |
| Normative standard            | EN 60898-1:2019<br>EN 60947-1:2007 + A1:2011 +A2:2014<br>EN 60947-2:2017 +A1:2020 |

## Surge protection device

|                                  |                         |
|----------------------------------|-------------------------|
| Type                             | Integrated Type 2+3 SPD |
| Nominal discharge current        | 5kA                     |
| Max. discharge current           | 10kA                    |
| Admissible short-circuit current | 10kA                    |
| Normative standard               | EN 61643-11             |

## Energy meter

|                    |                                                               |
|--------------------|---------------------------------------------------------------|
| Type               | MID (DUAL-T2-M, DUAL-T2S-M)   MID + MessEV/MessEG (DUAL-T2-E) |
| Accuracy class     | B                                                             |
| Normative standard | EN IEC 62052-11:2021/A11:2022   EN 50470-3:2022               |



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