

# Post eStreet Series

*Solution with DSO inside of the EV charger*

## Application

Designed to be used in those scenarios where DSO (Distribution System Operator) components such as utility meter & fuses are to be necessarily installed. By fitting those inside the EV charger a lower initial investment is accomplished.

## Concept Design

Considering the size of DSO components to be fitted inside, Post eStreet Series has been designed with a larger volume than other ground mount solutions from Circontrol (e.g. Post eVolve).

This has been achieved maintaining a consistent product range look, without forgetting robustness to withstand both operational and environmental daily conditions.



## Product highlights

### *For Charge Point Operator / Owner*

- The **Embedded Load Management** allows a lower TCO (Total Cost of Ownership) by charging two EVs simultaneously even when the charger is not supplied with its maximum output power.
- Its larger volume allows the integration of **DSO components** according to local standards (e.g. VDE-AR-N 4102 for Germany), thus reducing the initial investment of installing nearby an extra electrical cabinet to fit them.
- Its **frontal key-locked** door provides an easy access to the inside of the charger which results in a lower OpEx (Operating Expenditure) due to a quicker installation and service (preventive/corrective). Moreover, it allows the charger to be installed next to a wall, optimising the available space.
- **Stainless steel** housing with a robust structural design that provides protection to both mechanical stress and severe environmental conditions, increasing the charger lifespan and avoiding its replacement in just a few years.
- In terms of **communication**, either by its Ethernet port (by default) or 3G/GPRS modem (optional) the charger can be connected to a back-office system (by means of OCPP) obtaining benefits such as user management, billing, remote error diagnostic, etc.
- To comply with the most demanding requirements regarding billing, eStreet series includes **MID certified meters** readable from outside thanks to its window.

### *For Charge Point User*

- Clear charging instructions and plug status are shown using a **backlit display**, increasing user satisfaction. This is especially useful when the charger has been previously reserved by another user.
- eStreet series offers a **flexible authentication**, meaning that the user can either authenticate before or after connecting the cable to the EV. Additionally, the authentication process can also be disabled for a 'plug & charge' use mode.
- **Accessibility for the disabled** has also been considered, complying with international standards regarding the height of connectors/display that facilitates its operation.

# Post eStreet Series

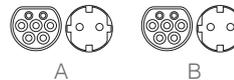
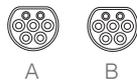
## General Specifications

|                             |  |
|-----------------------------|--|
| Network connection          | 10/100Base-TX (TCP-IP)                       |
| Interface protocol          | OCPP 1.2, 1.5                                |
| Enclosure rating            | IP54 / IK10                                  |
| Enclosure material          | Stainless steel                              |
| Enclosure door lock         | Key lock                                     |
| Enclosure access            | Frontal door                                 |
| Operating temperature       | -5 °C to +45 °C                              |
| Ambient temperature storage | -40 °C to +60 °C                             |
| Operating humidity          | 5 % to 95 % Non-condensing                   |
| Light beacon                | RGB colour indicator                         |
| Display                     | LCD Multi-language                           |
| Power limit control         | Mode 3 PWM control according ISO/IEC 61851-1 |
| Dimensions (D x W x H)      | 300x500x1600 mm                              |
| Weight                      | 90 Kg  |

|                         |   |
|-------------------------|---|
| RFID Reader             | ISO / IEC14443A / B<br>MIFARE Classic/DESFire EV1<br>ISO 18092 / ECMA-340<br>NFC 13.56MHz |
| Meter                   | EN 50470 (MID European standards) or IEC 62052-11   |
| Power output management | Embedded Load Management  |
| Overcurrent protections | MCB (Curve C)   |
| Safety protection       | RCD Type B  |
| <b>Optional devices</b> |   |
| Low temperature kit     | -30 °C to +45 °C  |
| Surge protection        | Four pole transient surge protector IEC 61643-1 (class II)                                |
| Smart meter             | Ready to eHZ EDL21  |
| DSO Components          | KH00, NH00, Meter Panel   |
| Wireless Communication  | 3G / GPRS / GSM   |

## Models Specifications

| Model                 | T                                 | TM4                               |                         |
|-----------------------|-----------------------------------|-----------------------------------|-------------------------|
| AC power supply       | 3P + N + PE                       | 3P + N + PE                       |                         |
| AC input voltage      | 400 V~ +/-10 %                    | 400 V~ +/-10 %                    |                         |
| Maximum input current | 64 A                              | 64 A                              |                         |
| Maximum input power   | 44 kW                             | 44 kW                             |                         |
| Number of plugs       | 2                                 | 4                                 |                         |
| Outlet A              | Maximum output current            | 32 A                              | 16 A                    |
|                       | Maximum output power              | 22 kW                             | 3,7 kW                  |
|                       | AC output voltage                 | 400 V~<br>(3P + N + PE)           | 230 V~<br>(1P + N + PE) |
| Outlet B              | Maximum output current            | 32 A                              | 16 A                    |
|                       | Maximum output power              | 22 kW                             | 3,7 kW                  |
|                       | AC output voltage                 | 400 V~<br>(3P + N + PE)           | 230 V~<br>(1P + N + PE) |
| Socket Type           | 2x Type 2 Socket<br>(Lock system) | 2x Type 2 Socket<br>(Lock system) | 2x CEE/7                |



## Customisation Examples

eStreet series offers a wide frontal surface that can be easily customised.

