

Post eStreet Series

Charging Station for Electric Vehicles

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 **backlight 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

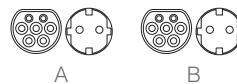
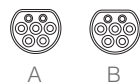
General Specifications

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	-20 °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)	300mm x 500mm x 1600mm
Weight	90 Kg

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

Models Specifications

Model	T	TM4	
AC power supply	3P + N + Erde	3P + N + Erde	
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~ (3P + N + PE)	230 V~ (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~ (3P + N + PE)	230 V~ (1P + N + PE)
Socket Type	2x Type 2 Socket	2x Type 2 Socket	2x CEE/7



Customisation Examples

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

