

EVPoint EV7 SMART EV Charger

The future of compact home charging



The EVPoint chargers are fully configurable via a web interface client, which is accessible from any Wi-Fi-enabled device.

- 7.4kW
- 230VAC, 50 Hz, 1-Phase to 3 x 230
- Power Level Control from 6A to 32A (software control)
- RCD Type A (30mA)/ DC (6mA), IEC 61008-1 compliant
- Undervoltage and Overvoltage protections
- Reverse phase protection
- CE (IEC 61851-1, IEC 61851-2, IEC 60950-1, IEC 60950-22)
- Ethernet, GSM and WLAN Connectivity
- OCPP 1.6 JSON Protocol
- Integrated NFC reader, 125 kHz
- External current monitoring via dedicated CT Clamp Device (Optional - Separate module purchase)
- Type 2 Tethered with 5m or optional 8m cable
- IP54 and IK08 ratings
- Mobile App functionality requires an internet connection. If this is not available, the charger settings may be changed via a web interface client.
- Optional Load Balancing Module (CT Clamp) - requires additional cabling from the charger to the main distribution panel

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The EVPoint charger range are smart AC chargers designed for residential and commercial installations (e.g., fleet buyers) that are available in single or three-phase options.

They come ready out of the box and support a variety of additional features such as tethered charging cables. For security and safety, NFC authorization and built-in RCD type A with DC leakage fault protection features are included as standard on all models.

The chargers are designed with a robust enclosure made of recycled plastic (up to 100% post-industrial and post-consumer feedstock), providing protection from the weather conditions and accidental impact. Easy setup and maintenance are guaranteed by a modular front cover which enables servicing essential connections without exposing the entire unit.

The main benefits of smart charging

are the ease of use and flexibility it offers, because it enables the user to control the time, duration, and amount of charging that is delivered to their EVs. In locations where electricity rates are variable throughout the day, this translates into substantial energy bills savings, as the charger can be configured to take advantage of lower energy prices during off-peak periods. Additionally, the charger has been designed to function with home solar installations. Thus, it can be set to provide charging only when excess energy is being generated, providing a very efficient utilization of energy resources. Smart charging also enables multiple chargers in a location to communicate with each other, and best utilize the available power to optimally charge several EVs.

The charger requires an internet connection to execute its smart functions. It can be configured to support a primary and secondary network interface for redundancy. For example, it can maintain a wire-less network connection, but fall back to GSM (requires separate data SIM Card) in case of poor connectivity or router failure. If no network connection can be established, the charger is capable of operating in a configurable "off line" plug-in charge" mode, whereby it works as a simple EVSE, providing the maximum permissible charging power when an EV is connected.

PRODUCT HIGHLIGHTS

- Easy to install and service
- Multiple connectivity options
- Compact and modular design allows for separate power/data connections
- NFC-compatible access control
- Full control with the Smart App (requires WiFi Internet connection near charger)
- Wi-Fi access point provisioning
- Integrated Type A 30mA RCD with 6mA DC protection
- Available as tethered with 5m cable or optional 8m

FEATURES AND SPECIFICATIONS

Smart and efficient charging

The EVPoint charger series belongs to a class of EVSE called smart chargers, because its entire functionality can be controlled remotely and automatically. This is enabled by the OCPP 1.6J protocol support embedded in the charger.

This is a universally accepted control protocol for charging stations, meaning that any OCPP-based server can talk to, control, and remotely update the charger, independent of service provider and other factors. This requires an internet connection near the charger.



(OPTIONAL) CT clamp: Current Transformer, an electrical device for non-contact measurement of current in a conductor. CT clamps are intended to be installed on the current-carrying live conductors ahead of the MCB. They monitor the total installation power (e.g., of an entire house or parking lot) and relay the values to the charger unit, which can then regulate its output power to prevent the MCB from tripping.

It monitors the state of the electrical network, and using a CT clamp, can monitor total installation consumption. The charger has a built-in AC/DC RCD, and will prevent leakage currents from causing damage to people and devices. The charger utilizes both sound and light signalling to report its state and possible faults, enabling the quick and safe detection of problems.