

ChargePoint® Mains control package

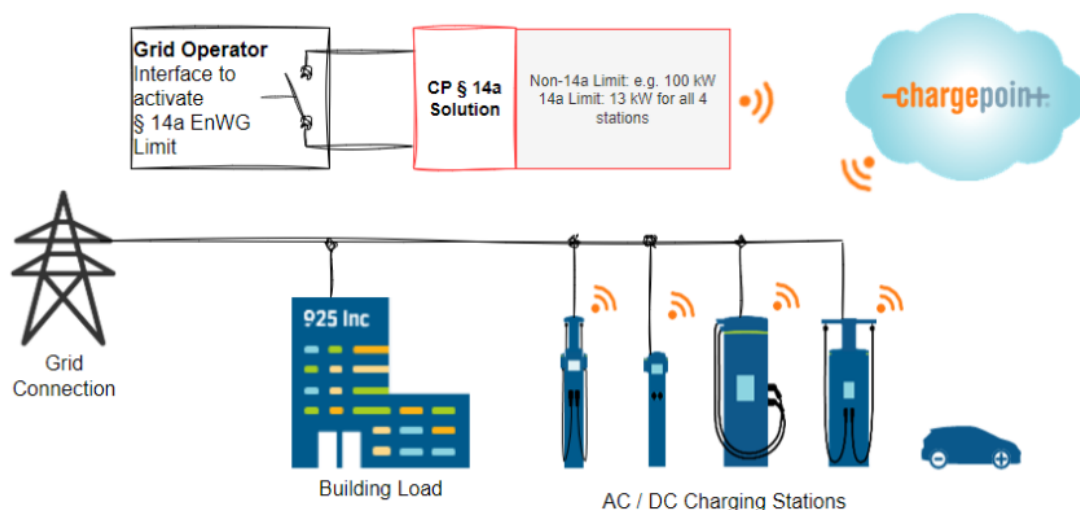
Intelligent grid management to meet the requirements of §14a EnWG

What does §14a EnWG say?

Since 01.01.2024, §14a stipulates that newly installed non-public charging stations with an output greater than 4.2 kW in the low voltage must be controllable by the distribution grid operator. In return, the operator benefits from a 60% reduction in grid or a flat rate per charging station of between €110-190 per year depending on the grid fees according to the Federal Network Agency. The technical requirements have been formalized by the local grid operators in the technical connection conditions (TABs) since autumn 2024.

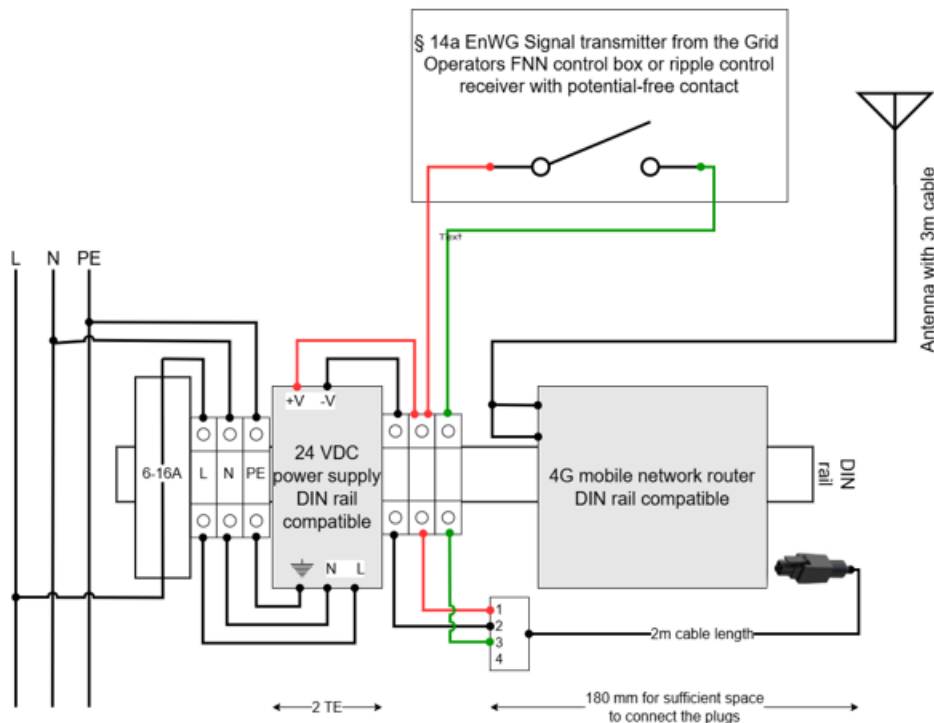
Functional description

The grid control package is installed per site and reads the control signal from the distribution network operator as a potential-free signal (relay control) from the FNN control box or the ripple control receiver and forwards this seamlessly to our cloud-based energy management system in the ChargePoint platform, as shown in the following image:



For this purpose, the ChargePoint network control package, consisting of router with antenna and power supply, must be installed and connected to the potential-free contact of the FNN control box or the network operator's ripple control receiver (xxx), see the following diagram.

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As soon as the signal from the grid operator is received, the total power of all active charging processes is reduced in accordance with the regulatory requirements. The charging stations are regulated to the corresponding limit value, which can also depend on other controllable consumption devices in accordance with Section 14a. The ChargePoint grid control package thus fulfills the requirements of §14a EnWG and entitles the user to benefit from reduced grid charges.

Note: OCPP Smart Charging functionality of the charging stations and connection of the charging station to the ChargePoint platform are mandatory.

The advantages

- + **Simple installation on site:** No additional cables to the stations are required, making retrofitting uncomplicated.
- + **Efficient power utilization:** As part of an integrated energy management solution, our solution ensures optimal use of the allocated power limit. In contrast to many competitors, who reduce the active power output to 0 kW in the §14a case, the ChargePoint solution forwards the available power to active charging processes in a targeted manner.
- + **Improved charging convenience:** Increases charging convenience and at the same time supports the stability of the power grid.
- + **Hardware-independent:** Compatible with AC and DC stations as long as they support OCPP Smart Charging. This applies to all charging stations sold by ChargePoint as well as many other models from other providers.
- + **Compatibility with energy management:** The solution is compatible with ChargePoint's dynamic load management and enables the additional use of local energy sources such as solar systems in the case of §14a.

Order information

Hardware

Code	Article	Description
99-007515-01	GRID-CONTROL-BUNDLE	The grid control package contains all the necessary components for grid-oriented control by the grid operator (e.g. §14a EnWG in Germany). This cloud-based solution is independent of the number of charging stations at a location.

Services

Code	Article	Description
00-EX1668-00	EMS-HW-INSTALL-COMMISSIONING	This optional bookable service includes both the installation and commissioning of the energy control hardware. The customer must work with their own contractor to complete all civil, electrical and network preparation to the point where the hardware package can be mounted and connected. ChargePoint will then engage an installer to install the solution at the prepared site and ensure that the electrical capacity, transformers, panels, breakers, wiring and cellular coverage meet all requirements published by ChargePoint or ChargePoint's hardware suppliers. This service is charged per hardware package.
00-EX1378-00	EMS-ACTIVE	One-off activation fee for the remote commissioning of hardware devices for energy management. Price per location
00-EX2083-00	GRID_CONTROL_OPERATION_FEE	Annual fee for network-oriented control, valid for one year, price per location.

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