

Smart charging with Solar PV

Wallbox solution



Smart charging with Solar PV

Our chargers are compatible with **photovoltaic energy** and, in the near future, Wallbox users will have access to solar energy management functionalities.

With the hardware already in place, it will only take an **online firmware update** to enable the smart PV charging features. The charger will be able to communicate with the users PV system and **manage their solar energy use** to charge their EV in **the most efficient way**.



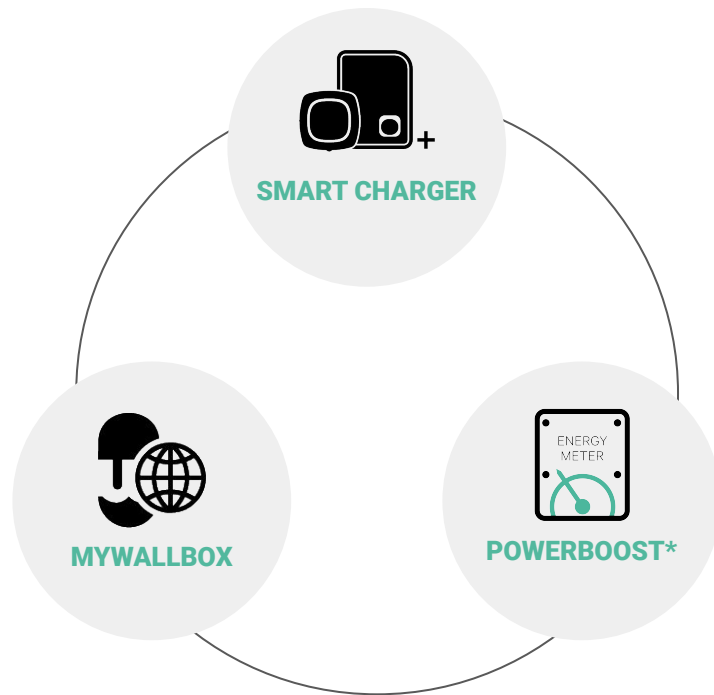
Smart charging with Solar PV

Our charger combined with our energy meter, **Powerboost**, work in conjunction with the **myWallbox** platform to read how much energy the home is consuming and supplies the EV charge from either the solar panels and/or the grid.

What is needed?

Hardware: Wallbox Charger, PowerBoost* and a Cable CAT5e

Software: myWallbox platform and online firmware update



**Use our bi-directional energy meters: Carlo Gavazzi EM112 (1P) and EM340 (3P)*



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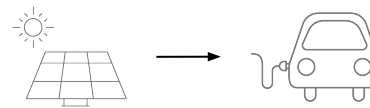
Our solution is designed to provide users with the most efficient charge, based on the solar energy available to them.

1

When the solar system generates **more energy** than the house consumes...



...the charger **takes the excess power** and uses it to charge the EV

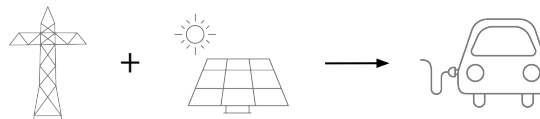


2

When the solar system generates **a bit more energy** than the house consumes...



...the charger takes **energy from the grid** and the **excess solar power** to charge the EV

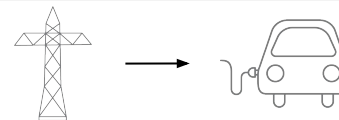


3

When the solar system generates **less energy** than the house consumes...

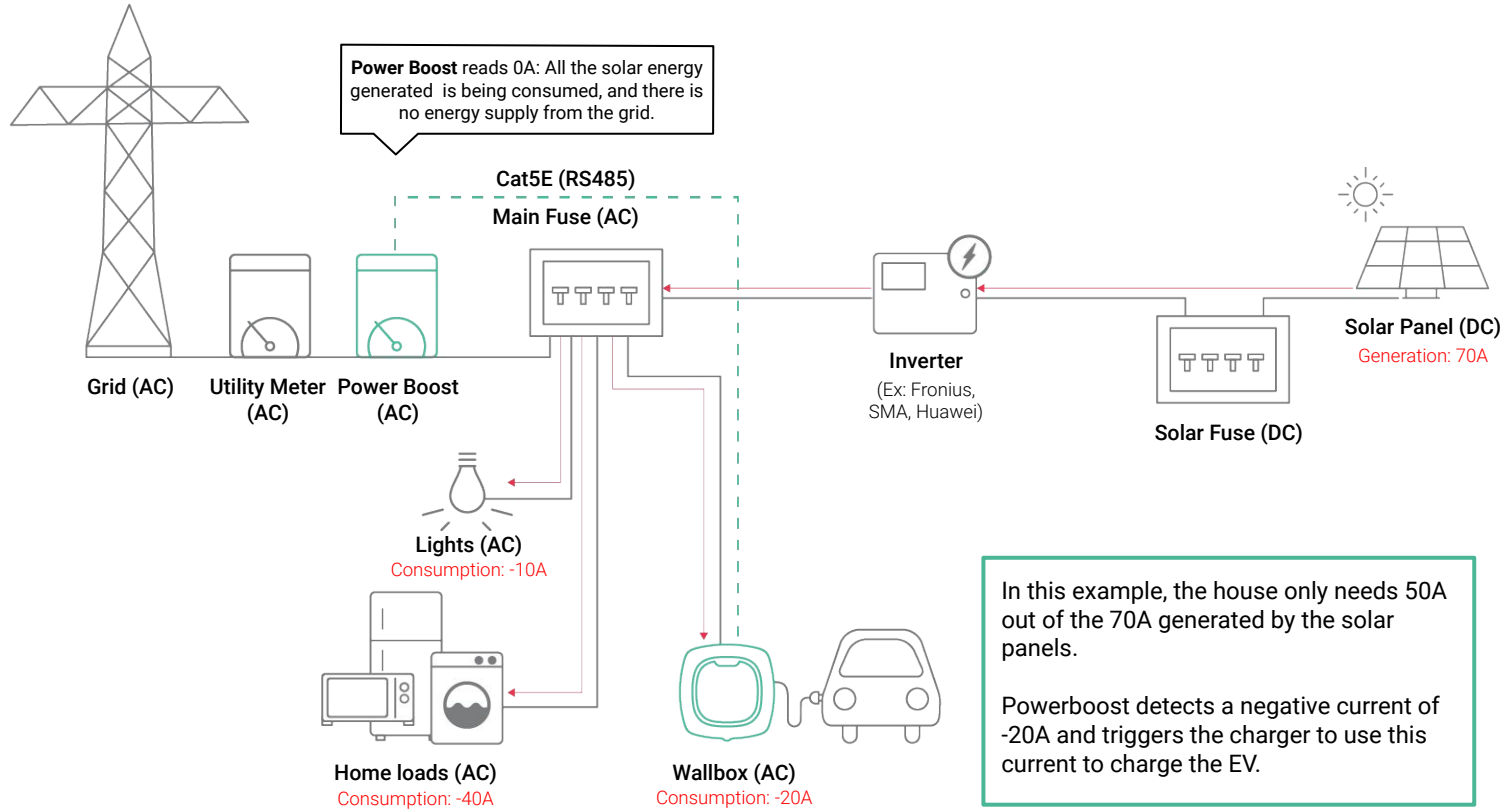


... the charger uses **energy from the grid** to charge the EV



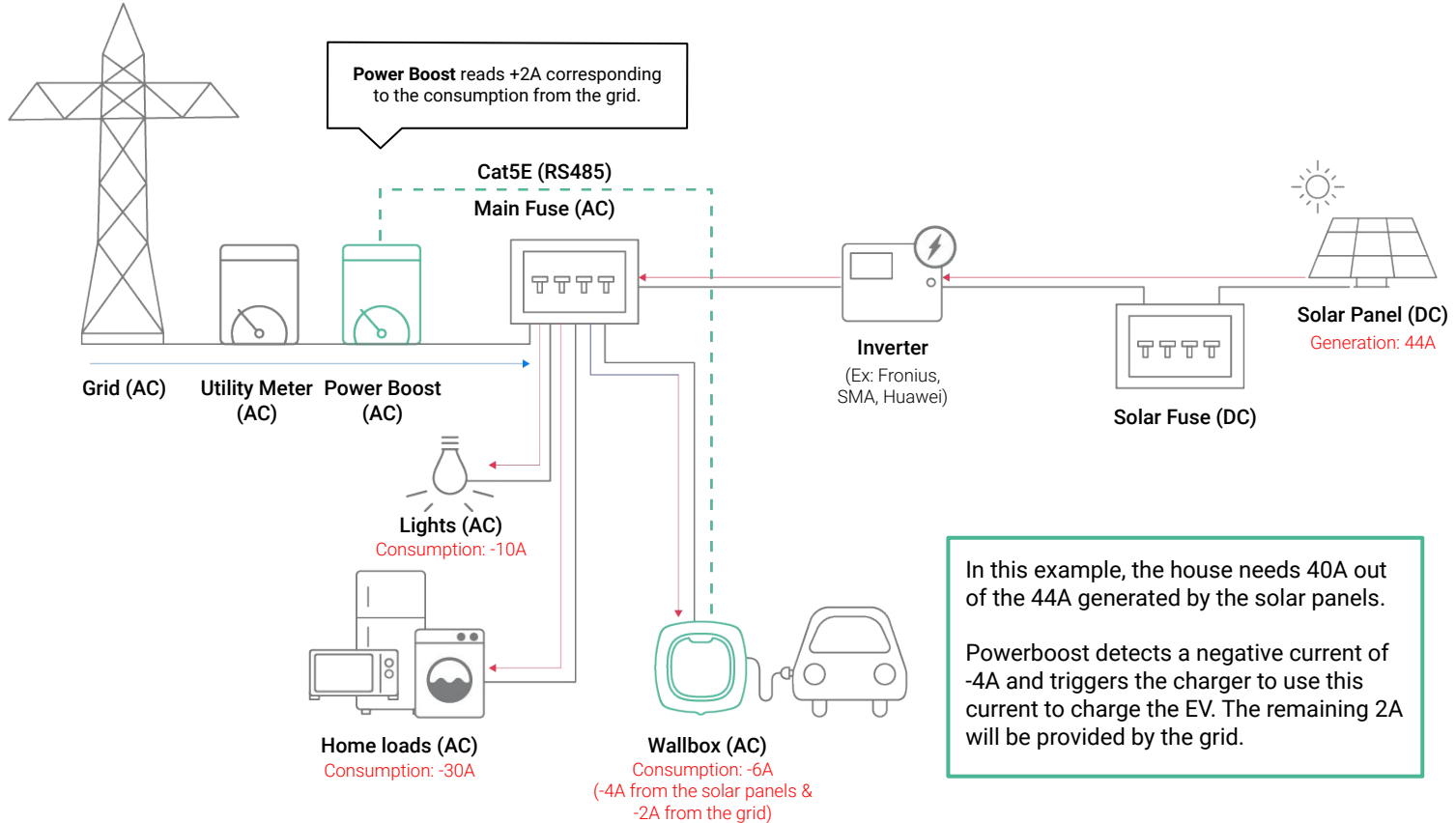
1 Scenario 1: how does it works?

When the solar system generates **more energy** than the house consumes...



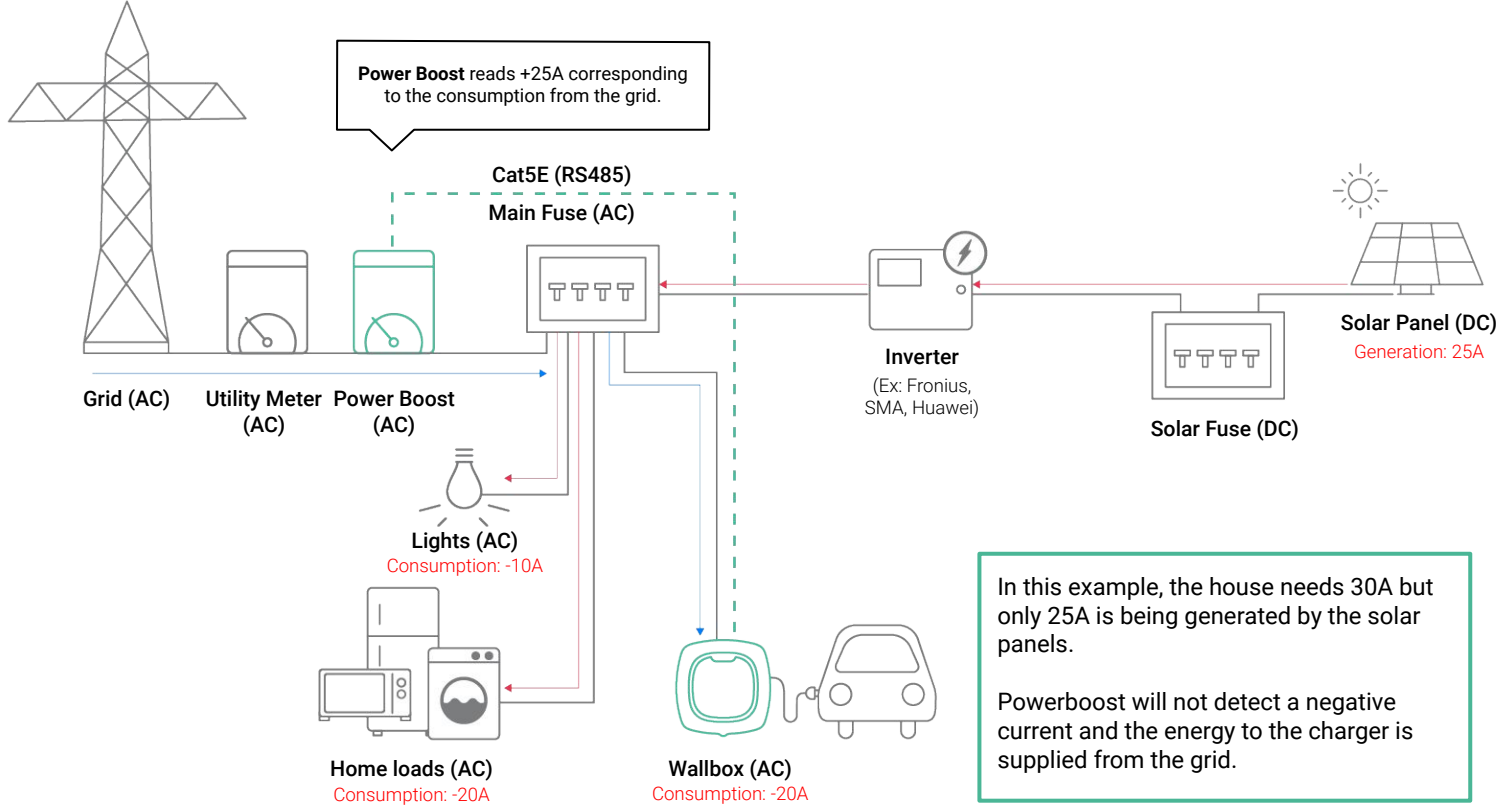
2 Scenario 2: how does it works?

When the solar system generates a bit more energy than the house consumes...



3 Scenario 3: how does it works?

When the solar system generates **less energy** than the house consumes...



Setup on myWallbox app

When the software update is released, Solar PV will show up in the Upgrades section. By activating it, **default modes will be settled.**

Users can modify the default settings to their preferences and needs.

On new installations, installers will be able to **recommend the best fit for each user.**

