PV plus upgrade

for home power stations

ENERGY STORAGE
E3/DC

A member of Hager Group

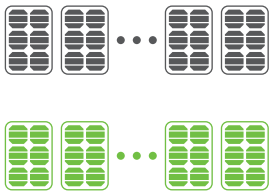
PV plus and INFINITY: Increase the PV power and storage capacity at any time

Generate and use even more of your own solar power

Heat pumps and electric cars are creating an increased demand for self-generated solar power. The efficiency and power of solar modules are also increasing, leading to an increase in the PV power that can be installed on the roofs of buildings. Nevertheless, up till now many new PV systems have been designed to stay below 10 kWp to avoid paying the EEG levy – or because sector coupling is not planned until a later date. E3/DC's PV plus and INFINITY concepts now make all-round expansion possible on the DC side, for both generation and storage. PV plus allows expanded strings and double strings of your solar modules up to 27 A for the home power stations S10 E, S10 X, the COMPACT variants and the S10 E PRO. In many cases, older E3/DC home power stations can also be expanded. This means the DC power connected to the home power station can be designed for 20 kWp and more – or expanded at any time to meet your requirements.

String expansion up to 1000 V
in a "super string" | –20 °C observe design

Doubling of existing strings up to 27 A
module optimisers are recommended for different roof alignments of the individual strings.



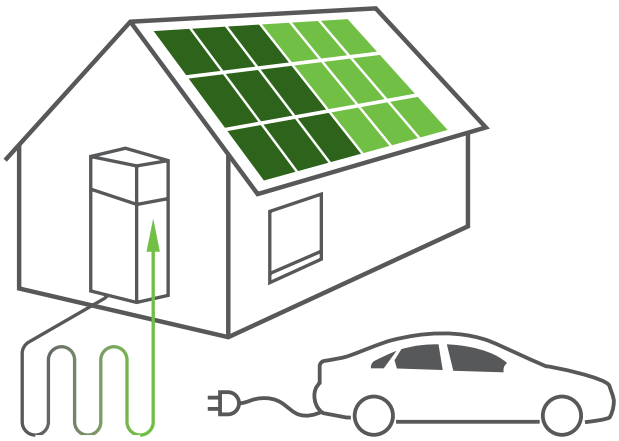
S10 E PRO: The PV connected load can be increased, and there is no longer an EEG levy up to 30 kWp!
Increasing the PV power of the S10 E PRO (using double and/or super strings) is possible without installing a new or additional inverter, without new meters and without changing the AC electrical installation. With the 2021 amendment to the EEG, the EEG levy will no longer apply to existing and new PV systems up to 30 kWp. After expanding a system, the operator receives two remuneration rates according to the power proportions. **In short: The S10 E PRO in particular is a home power station for two PV systems and maximum independence!**

INFINITY battery retrofitting: Especially with the S10 E PRO, up to three additional battery modules can be retrofitted very easily once during a period of five years.
No conversion is required for the S10 E PRO, only an additional battery cabinet is needed. The battery technology and the expansion capacity are selectable depending on availability. The additional storage capacity brings even more solar power into domestic consumption and especially into an electric car.

20 kWp

12.000 kWh

20 kWp PV power and a suitable storage system allow maximum self-sufficiency. You can charge a car with solar power for 25,000 km annual mileage for free all year round (24/7).



15 kWp

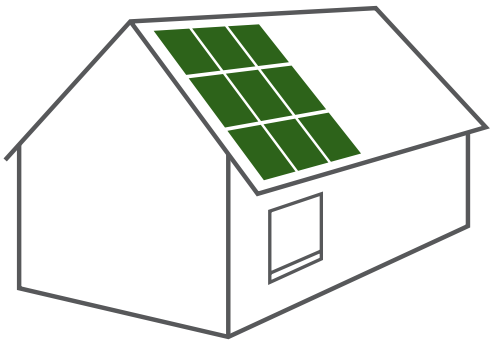
8.500 kWh

PV systems with around 15 kWp already enable a high level of self-sufficiency, even with a heat pump and electric car.

PV plus makes it possible:
Example: A 9.9 kWp concept for household electricity can become an independence solution for all sectors whenever you want it to, using the same home power station that is already installed!

10 kWp

6.500 kWh



PV outputs of up to 10 kWp are completely sufficient for household electricity. In sector coupling, however, these systems have their limitations. With the S10 E PRO, more power is always an option!

Design the PV system correctly – and add more whenever necessary!
Are the electric car and heat pump already here or are they still in the planning stage? Enough self-generated electricity is by all means possible because there are now high-current solar modules up to 400 W and more that are capable of more than 10 A and in the future even up to 13 A per solar module. This means that a relatively large amount of power generation capacity can be installed even on small roofs. If the system needs to stay under the 10-kWp limit initially, E3/DC's PV plus concept enables expansion at any time with technically identical solar modules. It is important to note that with PV plus for system outputs up to 20 kWp (and also beyond that), it is not necessary to install a new inverter or an additional inverter in the home power station. The meter design also remains unchanged. The necessary work is therefore limited to the installation and electrical connection of the new modules, which will be coordinated with your technician.

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