

ADVANTAGES AT A GLANCE:

- » Approximately 52 percent* less electricity from electric utility companies
- » Significantly reduced initial investment thanks to application-oriented battery capacity
- » Self-consumption rate boosted to 55 percent (up from 30)*
- » Solar power can also be used during the evening and at night
- » Almost complete usage of the annually generated PV energy, even when power feed-in is limited to 70 percent or less of nominal generator power
- » Outstanding efficiency in power conversion and temporary storage of power
- » Maximum reliability and dependability with lithium-ion cells from LG Chem with integrated battery management

INSTALLATION STEPS

Pictures 1 & 2: Mounting

The simple installation of the Sunny Boy Smart Energy













Pictures 5 & 6: DC and AC connection

SMA INTEGRATED STORAGE SYSTEM





Easy to Use

- Fast and easy installation
- No separate battery design
- Simply greater independence

Efficient

- Reduced initial investment and optimized battery use
- Minimized barrery use
 Minimization of derating losses
- Maximum reliability and dependability with lithium-ion cells from LG Chem

Reliable

- Future-proof with smart grid
- VDE-certified lithium-ion battery and
 . . .

Intelligent

- Loads can be controlled automatically
- Use of location-based generation and consumption forecasts

SMA INTEGRATED STORAGE SYSTEM

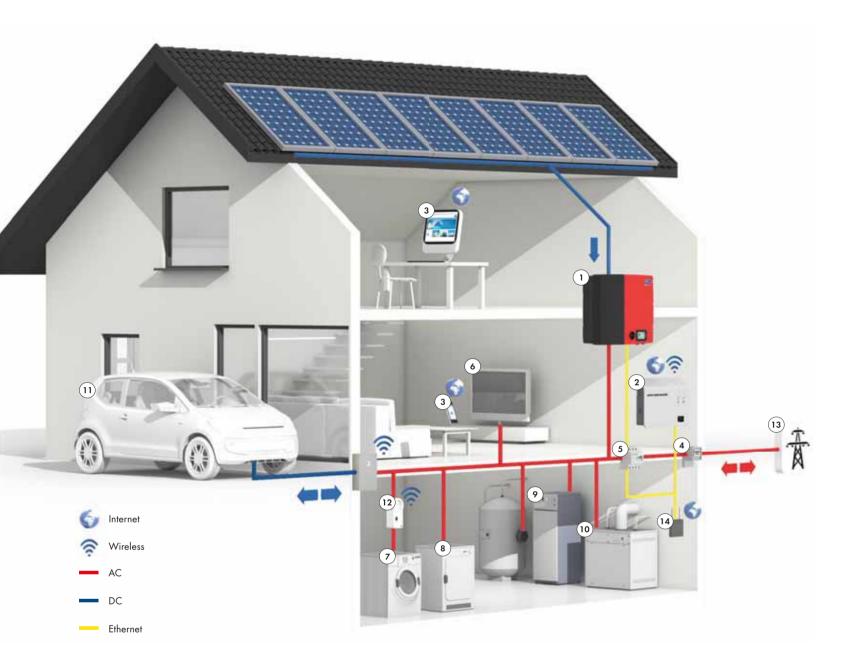
The simple storage solution for new PV systems*

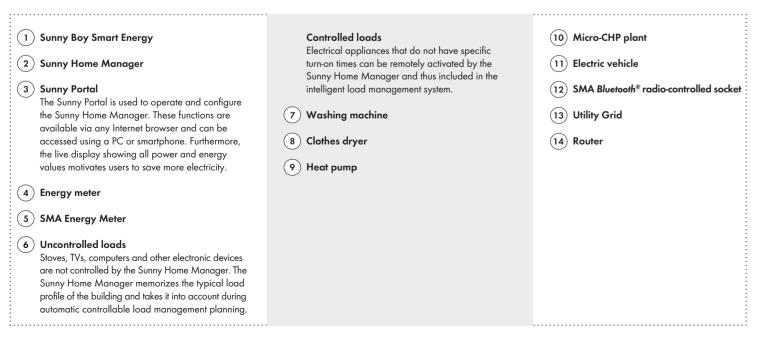
With the SMA Integrated Storage System, SMA offers an incredibly simple, intelligent energy management system as part of the SMA Smart Home system. The key elements of this cost-effective storage solution for new PV systems are the Sunny Home Manager, Sunny Boy Smart Energy — our full-fledged PV inverter with integrated storage — and the SMA Energy Meter. With an application-oriented battery capacity of 2 kWh, the SMA Integrated Storage System guarantees lower initial investment and considerably increased rates of self-consumption and therefore greater independence from rising energy prices. By integrating the battery into the energy management system, losses caused by limiting capacity can be better reduced.

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SMA INTEGRATED STORAGE SYSTEM

The turnkey battery solution for new PV systems







SUNNY HOME MANAGER

The control center of smart energy management

With its standard access to Sunny Portal, the Sunny Home Manager enables optimized load management. It not only records all the energy flowing in the home and integrates the PV generation forecast into the planning, but also incorporates charging and discharging of the lithium-ion battery into the Sunny Boy Smart Energy system. In addition, it can also activate controllable household devices via the optional SMA radio-controlled sockets.



SUNNY BOY SMART ENERGY

The perfect combination of PV inverter and battery

The Sunny Boy Smart Energy is currently the easiest and most affordable solution for common household PV applications. This combination of a modern PV inverter and a battery with an effective capacity of 2 kilowatt-hours not only optimizes increased self-consumption, but also makes it easier to use home-generated solar energy during the evening and at night.



SMA ENERGY METER

Universal recording of measured values for intelligent energy management

The SMA Energy Meter determines – balanced and with phase accuracy – electrical measured values as grid feed-in and purchased electricity meter and communicates these values via Speedwire. In this way, all of the data relating to PV generation, purchased electricity and grid feed-in can be transmitted via standard Ethernet cables, for example to the Sunny Home Manager or to the Sunny Boy Smart Energy.

Optional accessory:



SMA BLUETOOTH RADIO-CONTROLLED SOCKET

With the aid of the SMA radio-controlled sockets, household loads such as washing machines and dishwashers can be switched on or off remotely. This not only increases self-consumption, but also helps users record the load profiles of individual appliances - thus helping them identify particularly high-consumption devices.