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ennexOS

Sunny Home Manager 2.0

The smart energy manager:
Efficient, economical, convenient

- / The market's leading energy management solution
- / Over 300,000 systems installed around the world

Efficient energy management

- Efficient energy use, cost savings and outstanding convenience
- Forecast-based for producers and consumers by up to 48 hours
- Learn about recurring consumers and their load profiles

Capacity management

- Avoid consumption peaks (peak load reduction)
- Prepared for power dimming (para. 14a Energy Industry Act [EnWG])
- Map electricity tariffs or battery charging times

Simple load control

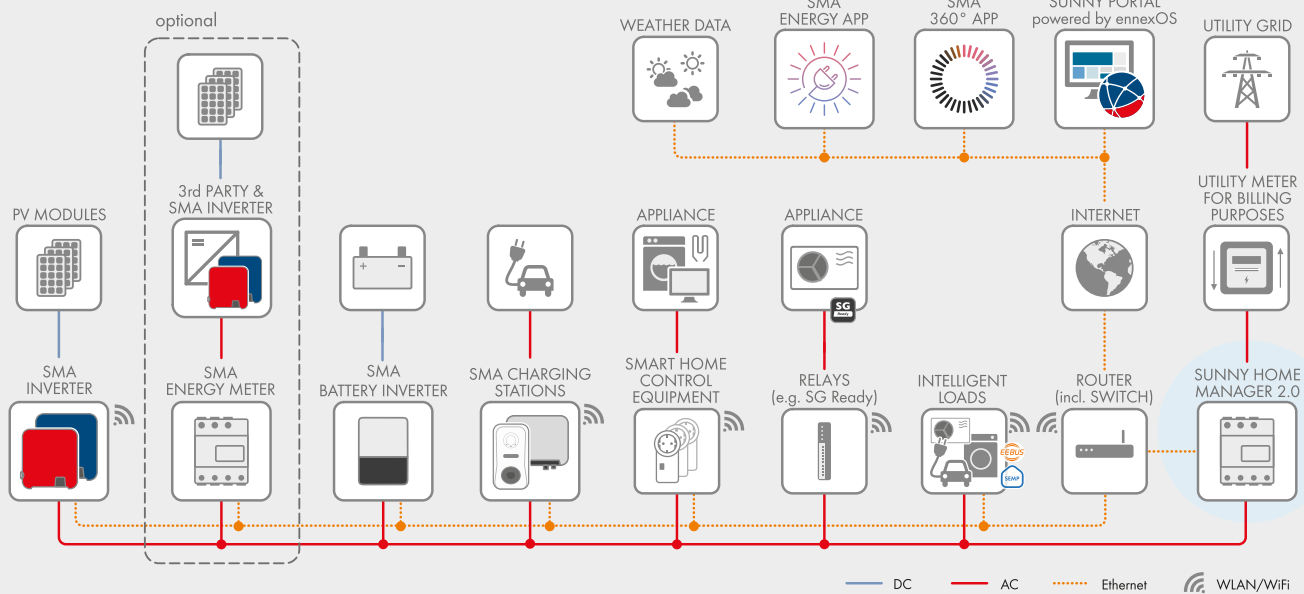
- High system compatibility with other manufacturers
- Clear monitoring of energy flows
- Easy control and prioritization of consumers
- Individual adjustment of the energy mix for consumers
- Very high cybersecurity standards

The Sunny Home Manager 2.0 is the intelligent energy manager for homeowners. It controls and manages the energy flows in the home fully automatically as and when required, and enables efficient use of the self-generated solar power, thereby saving costs without compromising on convenience.

The system optimizes consumption in the home and controls not only the washing machine and dishwasher, but also domestic battery storage systems, heat pumps and electric vehicle charging stations. This increases the self-consumption rate of the solar power and enables optimal use of new dynamic tariffs – all fully automatically and cost-effectively.

The Sunny Home Manager 2.0 has established itself as a market bestseller, with over 300,000 installations and more than a decade of success. Thanks to the importance placed on cybersecurity at SMA, the system also offers comprehensive protection against data misuse and unauthorized access.

An example of intelligent energy management: PV generation with SMA storage solutions and various controlled appliances.



Technical Data	Sunny Home Manager 2.0
Energy management	
Increased self-consumption	•
Forecast-based battery charging / load control	• / •
Selectable forecast period	24 h / 48 h
Visualization of recommended action	•
Prioritization of consuming devices	•
Configurable time frame for consuming devices	•
Consuming device usage with excess PV energy (optional) / target specification (mandatory)	• / •
Max. no. of devices: measurable / measurable and controllable	24 / 12
Support, energy management, logs	SMA Energy Meter interface, SEMP (Simple Energy Management Protocol), EEBUS
Operation and visualization	SMA Sunny Portal, SMA Energy App, local devices LED
Control / optimization targets on the grid connection	
Dynamic active power control: as percentage / value / external specification / zero export	• / • / • / •
Manual / dynamic electricity tariffs	• / –
Time window control for charging the battery-storage system	•
Peak Load Shaving	•
Compatible devices (detailed information in the product download)	
Monitoring of energy / room temperature	• / •
Connection of SMA PV inverters and battery systems	•
Integration of third-party inverters via separate SMA Energy Meter	•
Smart Home: radio-controlled socket	•
Home appliances: dishwashers / clothes dryers / washing machines	• / • / •
Heating and hot water preparation: heat pumps / heating rods / universal heating solution	• / • / •
Heat pumps via SG-Ready interface: internal / external	– / •
E-mobility: charging stations for electric vehicles	•
Status display and recommended actions: Sunny Portal / local LED	• / •
General Data	
Measurement accuracy	≤ 1 %
Nominal voltage	110 V / 230 V / 400 V
Frequency	50 Hz / 60 Hz
Nominal current / limiting current per phase	5 A / 63 A (>63 A can be covered via external current transformers)
Dimensions (W / H / D)	70 mm / 88 mm / 65 mm
Mounting type / location	Rail mounting in the switch or meter cabinet
Interfaces: Wi-Fi / Ethernet	– / •
Automatic update: Sunny Home Manager / subordinate SMA devices	• / •
Warranty	2 years
Model type number	HM-20

• Standard features ○ Optional – Not available Version: 6 / 2024 (Subject to changes)