

SUNNY HOME MANAGER 2.0

HM-20



Innovative

- Energy manager with integrated measuring device
- Consumption analysis of individual loads
- Optimized battery charging in SMA storage systems

Easy to Use

- Quick plug-and-play installation
- Overview of all relevant appliances, PV generation and battery systems
- Use energy more efficiently and reduce electricity costs

Transparent

- Energy balance and load data shown in interactive diagrams
- Integrated weather and PV forecast data
- PV system monitoring via Sunny Portal

Flexible

- Appliance connection via standard protocols and switchable devices
- For compatible devices, such as heat pumps, electric vehicles and other household appliances, go to www.sma-solar.com

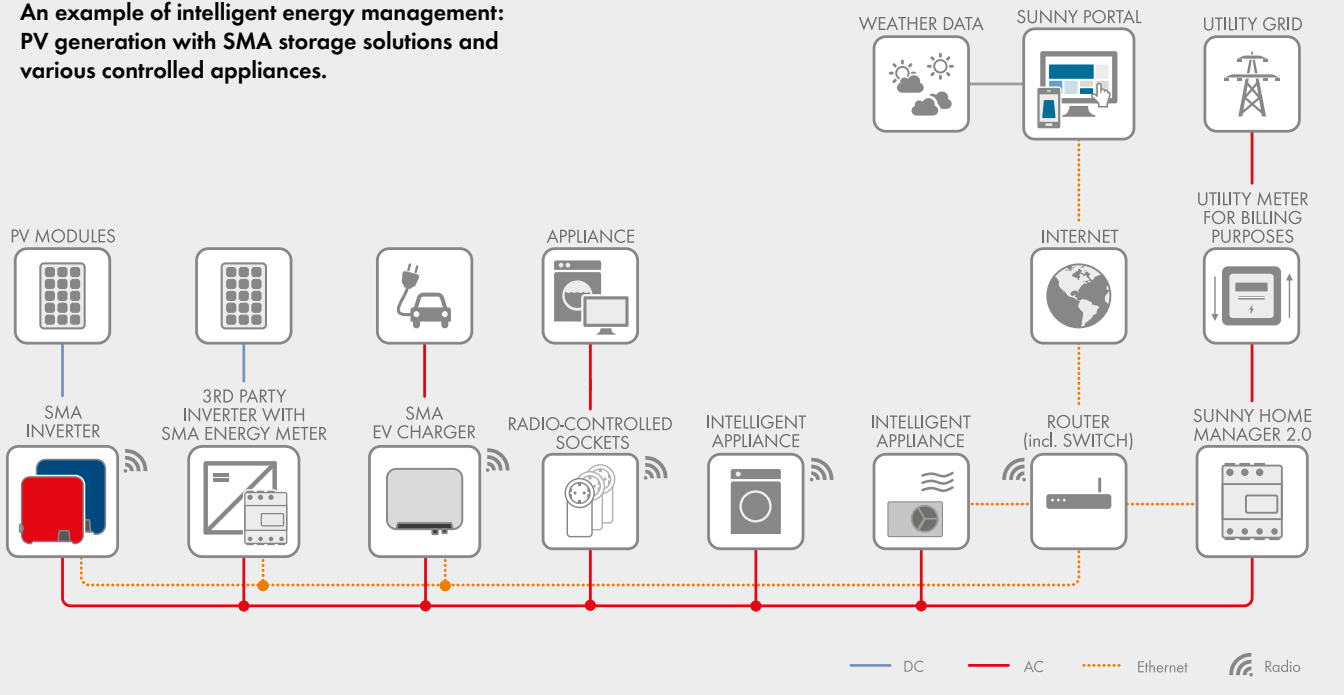
SUNNY HOME MANAGER 2.0

The control center for smart energy management

The Sunny Home Manager 2.0 is SMA's intelligent energy manager and enables the most efficient use of solar energy in the home. It optimizes PV self-consumption and significantly reduces electricity costs. To do this, it measures the power of PV generation, purchased electricity as well as grid feed-in, and gives an overview of all relevant energy flows in the household. By means of local PV generation forecasts and the measured household consumption profile, the self-learning device prompts the user with energy-related action recommendations. Operation of the controlled appliances is coordinated in a way to optimize the use of self-generated solar energy.

The path to intelligent energy management is quite easy. Simply install the Sunny Home Manager 2.0 at the grid connection point, connect it to the internet router using an Ethernet cable, then register the PV system in Sunny Portal free of charge and join more than 60,000 systems already installed worldwide in benefiting from greater energy efficiency.

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



| Technical Data | Sunny Home Manager 2.0 |
|--|--|
| Energy Manager | |
| Connection to the local router | via Ethernet cable (10/100 Mbit/s, RJ45 plug) |
| Connection of SMA PV inverters and battery systems | Ethernet or WLAN via local router |
| Connection of appliances for energy management | a. Direct data connection (EEBUS, SEMP) b. Indirect data connection (compatible switchable devices) |
| Integrated Measuring Device | |
| Measurement accuracy | ≤1 % |
| Measuring cycle | 200 ms, 600 ms or 1000 ms |
| Max. number of devices on the system (excluding the SMA Energy Meter) | |
| Total number of devices in the system | up to 24 |
| of which devices as appliances in active energy management | up to 12 |
| Inputs (voltage and current) | |
| Nominal voltage | 110 V / 230 V/400 V |
| Frequency | 50 Hz / 60 Hz |
| Nominal current/limiting current per line conductor | 5 A/63 A (>63 A can be covered via external current transformers) |
| Connection cross-section | 10 mm ² to 16 mm ² (for 63 A application) |
| Torque for screw terminals | 2.0 Nm |
| Ambient Conditions in Operation | |
| Ambient temperature | -25 °C to +40 °C |
| Storage temperature range | -25 °C to +70 °C |
| Protection class (according to IEC 62103) | II |
| Degree of protection (according to IEC 60529) | IP20 |
| Max. permissible value for relative humidity (non-condensing) | 5% to 90% |
| Operation altitude range | 0 m to 2000 m |
| General Data | |
| Dimensions (W/H/D) | 70 mm/88 mm/65 mm |
| Top hat-rail width units | 4 |
| Weight | 0.3 kg |
| Mounting location | Switch or meter cabinet |
| Mounting type | Top-hat rail mounting |
| Status display | 3 x LED |
| Self-consumption | < 3 W |
| Features | |
| Operation and visualization | via Sunny Portal, Sunny Portal Pro |
| Update function for the Sunny Home Manager and the connected SMA devices | automatic |
| Warranty | 2 years |
| Certificates and approvals | www.SMA-Solar.com |
| Accessories | |
| SMA Energy Meter as complement to integrated measuring device | Precise three-phase measuring, connection via Ethernet in the local network. |
| Last updated: 03/2021 | |
| Type designation | HM-20 |