

SUNNY HOME MANAGER

HM-BT-10, HM-BT-10-SET



Innovative

- Active power limitation at the grid-connection point
- Load analysis for each individual load
- Enhanced battery charging for storage systems with Sunny Boy Smart Energy or Sunny Island inverters

Easy to Use

- Visualization for up to 23 household loads
- Active energy management for up to 12 loads via radio-controlled socket or direct connection
- Easy commissioning with the PV System Setup Assistant

Transparent

- Basic system monitoring via Sunny Portal
- Overview for all household energy flows
- Visualization of weather and PV forecast data

Flexible

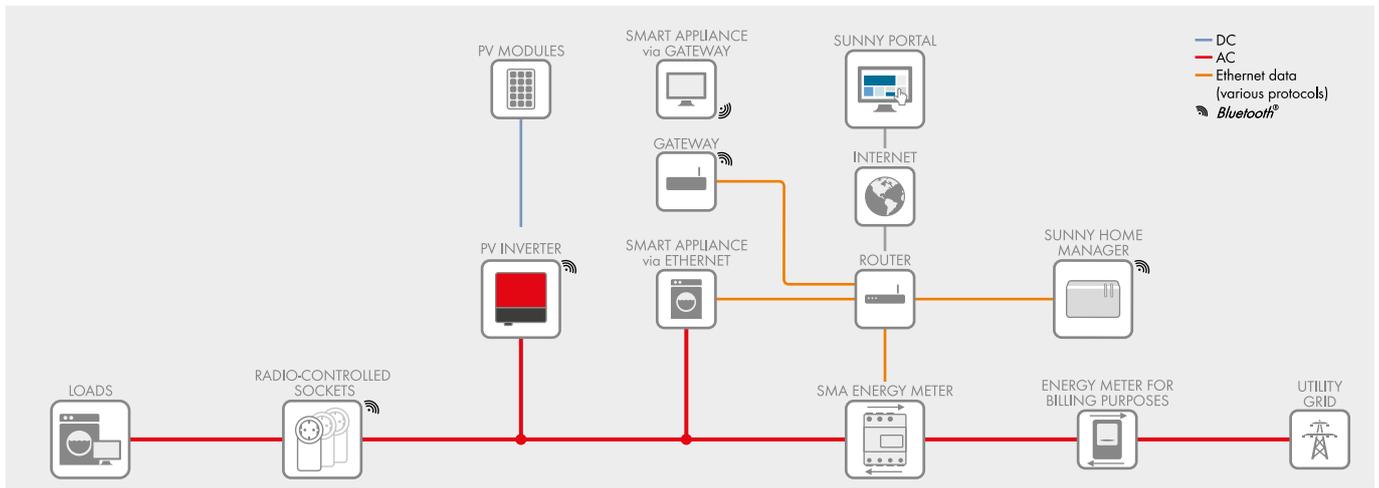
- Perfect utilization of the PV energy by load-dependent control (heat pumps and electric vehicle charging stations)
- Automated integration of directly controllable loads via Ethernet communication

SUNNY HOME MANAGER

The control center for smart energy management*

The Sunny Home Manager is the ideal solution for smart energy management within the SMA Smart Home thanks to its standard access to Sunny Portal. It provides an overview of all important energy flows in the household, automatic load control and storage system integration. By using local PV generation forecasts and recording the load profiles of household appliances, PV energy can be used more efficiently, thereby significantly increasing self-consumption. Additionally, active power for PV feed-in can be limited to 70 percent (or 60 percent for battery systems), which is required in Germany. In short: Energy management with the Sunny Home Manager allows for higher self-consumption and efficient use of the locally generated PV power.

* Radio-controlled sockets are not available in all countries.



Technical Data	Sunny Home Manager
Communication	
Load communication	Direct via Ethernet / Plugwise radio-controlled socket via Ethernet-ZigBee / SMA radio-controlled socket via Bluetooth®
Inverter communication	Bluetooth® / Speedwire
Sunny Portal communication	Ethernet
Connections	
Inverter	See inverter communication
Ethernet	10 / 100 Mbit, RJ45
Energy meter	SMA Energy Meter via Ethernet / three 2 x 4-pole plugs for connection of SO cable or DO optical probes
Max. number of connected devices (in addition to the SMA Energy Meter)	
Total number of devices in the system	up to 24
Number of devices as loads under active energy management	up to 12
Max. radio range	
Bluetooth in free-field conditions	Up to 100 m (can be extended with an SMA radio-controlled socket)
Speedwire	100 m
Voltage supply	
Voltage supply	External plug-in power supply
Input voltage	100 V to 240 V AC, 50 / 60 Hz
Power consumption	< 6 W (max. 14.3 W)
Ambient conditions in operation	
Ambient temperature	-25 °C to +60 °C (-13 °F to +140 °F)
Degree of protection (according to EN IEC 60529)	IP20
Max. permissible value for relative humidity (non-condensing)	5% to 95%
General data	
Dimensions (W/H/D)	170 / 124.5 / 41.5 mm (6.7 / 4.9 / 1.6 inch)
Weight	0.22 kg (0.5 lb)
Mounting location	Indoors
Deployment options	Top-hat rail mounting, wall mounting
Status display	2 LEDs
Language of the manual	German, English, Italian, Spanish, French, Dutch, Portuguese
Features	
Operation	Via Sunny Portal
Update function	Manually or automatically for the Sunny Home Manager and the connected SMA devices
Warranty	5 years
Certificates and approvals	www.SMA-Solar.com
Accessory	
SMA Energy Meter	Precise three-phase measurement of purchased electricity and grid feed-in, necessary for Sunny Boy Smart Energy and Sunny Island. Connection via Ethernet in the local network.
Radio-controlled sockets for load control and power measurement	Plugwise radio-controlled socket sets with Stretch (firmware version 2.7.7, and higher), communication via Ethernet/ZigBee, input voltage 100 V to 240 V (50/60 Hz), switching power: 16 A (max. 3,680 W resistive), country-specific version of type F, E, G, I, Plugwise components are available via local Plugwise sales channels SMA Bluetooth radio-controlled socket including SMA Bluetooth repeater function, Input voltage 100 V to 240 V (50/60 Hz), Switching power: 16 A (max. 3680 W resistive), country-specific versions of type F, E
State: January 2016	
Type designation	HM-BT-10, HM-BT-10-SET