WEBBOX-BT-20

SUNNY WEBBOX

BLUETOOTH® WIRELESS TECHNOLOGY

PLANT STATUS • MODEM • DATA UPLOAD • SD CARD • SYSTEM • POWER

SMA

Reliable

- Remote monitoring, diagnosis and configuration of the PV plant
- Data logger for all key plant data
- Rapid detection of operational failures

Simple

- Automatic monitoring of up to 50 inverters via SMA *Bluetooth®*
- Fast set-up thanks to Sunny WebBox Assistant and quick reference guide

- Wireless connection to the Sunny SensorBox also possible

User-friendly

- Including free standard access for Sunny Portal for the entire service life of the plant
- Easier data evaluation due to FTP push function – even in CSV format

SUNNY WEBBOX with *Bluetooth®* Wireless Technology

Rapid set-up, reliable monitoring

No cables needed, simple to configure, extremely user-friendly. That's the Sunny WebBox with *Bluetooth*. It receives and stores currently measured values and data from PV inverters and Sunny SensorBox devices. Via the international wireless standard *Bluetooth standard*, this data logger can access up to 50 network nodes. This keeps the operator updated on the status of his PV plant right around the clock. In addition, contractors are able to carry out the parameterization of all SMA inverters using the web interface of the Sunny WebBox. Thanks to the new Sunny WebBox Assistant, commissioning is as simple as pie. And the new web interface displays the yields of each inverter at a glance in day-by-day and history views. Sunny WebBox with *Bluetooth* - the ideal link to SMA inverters.

SUNNY WEBBOX WITH *BLUETOOTH*®

Rapid set-up, reliable monitoring

Modular system monitoring for commercial PV systems

The Sunny WebBox with *Bluetooth* continuously records and stores all available measured values from up to 50 inverters. Data transmission takes place via the international wireless standard, *Bluetooth*. Thus, there is no need for any cable routing which saves installers time and costs. In addition, the inverter parameters can be called up and modified with the Sunny WebBox. Parameters can be adjusted via the web interface of the device from anywhere in the world!

The Sunny WebBox with *Bluetooth* allows contractors and plant operators to be in touch with the status of a PV plant at any time and to detect operational faults at an early stage. Wherever you may be – at home, in the office or away on business: all you need is a PC and an Internet connection in order to access the data of the Sunny WebBox with *Bluetooth*.

Data management

The Sunny WebBox provides various data processing options for professional data management. The recorded output values, which provide you with detailed information on the performance of your system, are saved in conventional CSV or XML file formats on the Sunny WebBox with *Bluetooth*. By means of FTP data exchange you can easily transfer these values to your PC. In this way, valuable system data cannot only be saved long-term on your computer, but can also be displayed as desired, e.g. using MS Excel, and evaluated in concise daily, monthly and yearly
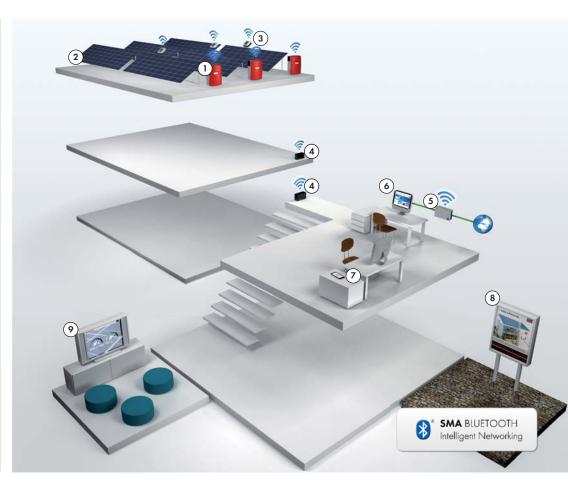
Typical system design – wireless transmission

Electricity generation
1. SUNNY MINI CENTRAL
2. Solar generator

Plant Monitoring
3. SUNNY SENSORBOX
   with *Bluetooth* Wireless Technology via Power Injector
4. BLUETOOTH REPEATER
5. SUNNY WEBBOX
   with *Bluetooth* Wireless Technology
6. SUNNY PORTAL
7. SUNNY PORTAL MOBILE
8. SUNNY MATRIX
9. FLASHVIEW

SMA BLUETOOTH
Intelligent Networking

charts. Moreover, it is possible to send plant data – to an FTP-server of your choice as well as to the Sunny Portal.

Monitoring, presentation and management with Sunny Portal

And the ultimate in convenience is achieved by linking the Sunny WebBox to our free Internet portal.

At www.SunnyPortal.com, we provide you with a completely pre-configured environment in which the data can be archived, processed and displayed automatically. If desired, the Sunny Portal will also generate a daily or monthly plant report that you receive by e-mail. And in the unusual event that the Sunny Web-Box with *Bluetooth* should not transmit any data, the Sunny Portal will also notify you of this. On request, it will automatically compare the yields of all inverters in the system and keep you informed about potential deviations. Another advantage is that the WebBox software can be automatically updated via the portal. This ensures that your system monitoring is always kept up-to-date with the latest technology.

Sunny Portal and Sunny WebBox form an unbeatable combination for keeping track of your solar harvest. And through SMA Service, operators and contractors receive support for the entire service life of a plant. So if any failure occurs, our employees can log in to the plant and provide direct troubleshooting support.

Technical data	Sunny WebBox with *Bluetooth*®
Communication	
Inverter communication	*Bluetooth*
PC communication	10/100 Mbit Ethernet
Modem	analog* (optional), GSM (optional)*
Interfaces	
Inverters	see inverter communication
Ethernet	10/100 Mbit, RJ45
Max. number of SMA devices	
Bluetooth	1 Master: 50 / 2 Master: 25
Max. communication range	
Bluetooth in the open air	up to 100 m (can be extended with an SMA *Bluetooth*® Repeater)
Power supply	
Power supply	external plug-in power supply
Input voltage	100 V – 240 V AC, 50 / 60 Hz
Power consumption	typically 4 W/ max. 12 W
Environmental conditions in operation	
Ambient temperature range	– 20 °C ... +65 °C
Relative air humidity	5 % ... 95 %, non-condensing
Memory	
Internal	12.5 MB in a ring memory configuration
External	SD card 1 GB / 2 GB (optional)
General data	
Dimensions (W / H / D) in mm	255 / 130 / 57
Weight	750 g
Installation site	indoors
Mounting options	Top-hat rail mounting, wall mounting, tabletop device
Status display	LEDs
Language versions - software / manual	German, English, French, Greek, Italian, Korean, Dutch, Portuguese, Spanish, Czech
Features	
Operation	integrated web server (Internet browser)
Warranty	5 years
Certificates and approvals	www.SMA-Solar.com
Accessories	
Sunny SensorBox	Connection via SMA Power-Injector with *Bluetooth*®
SMA *Bluetooth*® Repeater	for extension of the maximum *Bluetooth*® communication range
Sunny Matrix	O
SD card 1 GB / 2 GB (optional)	O
Outdoor GSM antenna	O *
GSM data card	O *

● Standard features   O Optional features   — Not available

* Analog and GSM modem as well as corresponding accessories not available for first version of Sunny WebBox with *Bluetooth*

Simple installation thanks to SMA *Bluetooth* and Sunny WebBox Assistant

Presentation of plant data with Sunny Matrix or Flashview

Automatic **visualization** of the measuring data in Sunny Portal - free of charge

SD card slot for optional **memory expansion** and data transfer to a PC

Integrated web server enables **online remote data access** from any web-enabled PC in the world

Integrated FTP server for data transfer and storage on a PC

Individual processing of the measuring data on the PC

Flexible data transfer to random FTP server as well as Sunny Portal possible