

# SUNNY WEBBOX



## Reliable

- Remote monitoring, diagnosis and configuration of the solar power system from anywhere in the world
- Data logger for all key plant data

## Responsive

- Rapid detection of operation failures
- Error notification via e-mail or text message

## User-friendly

- Easy remote access via a web browser
- Includes free standard access to the Sunny Portal for the entire service life of the system

## Informative

- Flexible display, evaluation, yield and event reports via the Sunny Portal

## SUNNY WEBBOX

Remote monitoring and maintenance of large solar power plants

The Sunny WebBox is the ideal monitoring solution for large solar plants. It receives and stores current measurement values and transmits data via *Bluetooth*® or RS485, keeping you informed of system performance 24 hours per day. In the event of a problem, the Sunny WebBox allows you can react quickly. Parameters can be changed remotely and a variety of measured values can be depicted, analyzed and downloaded via a Web browser from anywhere in the world with an Internet connection. All data from the connected devices is stored and, if desired, automatically transmitted to the Sunny Portal. With the optional GSM modem, measurement data can even be transmitted to the Sunny Portal from remote locations.

Technical data	Sunny WebBox	Sunny WebBox with Bluetooth
<b>Communication</b>		
Inverter communication	RS485, 10/100 Mbit Ethernet (only for Sunny Central)	Bluetooth
PC-communication	10/100 Mbit Ethernet	10/100 Mbit Ethernet
Modem	Analog (optional), GSM (optional)	Analog* (optional), GSM (optional)*
<b>Connections</b>		
Inverter	1x SMACOM	See inverter communication
Ethernet	10/100 Mbit, RJ45	10/100 Mbit, RJ45
<b>Max. number of SMA devices</b>		
RS485 / Ethernet	50 / 50	-/-
Bluetooth	-	1 master: 50 / 2 masters: 25
<b>Max. communication range</b>		
RS485 / Ethernet	1200 m / 100 m (3937 ft / 328 ft)	-/-
Bluetooth (unobstructed)	-	Up to 100 m (328 ft)** (can be extended with an SMA Bluetooth Repeater)
<b>Power supply</b>		
Power supply	external plug-in power supply	external plug-in power supply
Input voltage	100 V - 240 V AC, 50 / 60 Hz	100 V - 240 V AC, 50 / 60 Hz
Power consumption	Typ. 4 W/ max. 12 W	Typ. 4 W/ max. 12 W
<b>Environmental conditions in operation</b>		
Ambient temperature	-20 °C ... +65 °C (-4 °F ... +149 °F)	
Relative humidity	5% ... 95%, non-condensing	
<b>Memory</b>		
Internal	8 MB in a ring memory configuration	12.5 MB in a ring memory configuration
External	optional SD card 128 MB/512 MB/1 GB/2 GB	optional SD card 128 MB/512 MB/1 GB/2 GB
<b>General data</b>		
Dimensions (W / H / D) in mm (in)	255 / 130 / 57 (10 / 5 / 2)	
Weight	750 g (2 lb)	
Mounting location	indoors	indoors
Installation options	DIN rail installation, wall mounting, tabletop device	DIN rail installation, wall mounting, tabletop device
Status display	LEDs	LEDs
Language versions (software, manual)	German, English, French, Greek, Italian, Korean, Dutch, Portuguese, Spanish, Czech	
<b>Features</b>		
Operation	Integrated Web server (Internet browser)	Integrated Web server (Internet browser)
Warranty: 5 years	●	●
Certificates and approvals	www.SMA-Solar.com	www.SMA-Solar.com
<b>Accessories</b>		
Sunny SensorBox	connection via RS485 Power Injector	connection via SMA Power Injector with Bluetooth
SMA Bluetooth Repeater	-	For extending the maximum Bluetooth communication range
Sunny Matrix	○	○
SD card 128 MB/512 MB/1 GB/2 GB	○	○
Outdoor GSM antenna	○	○*
GSM data card	○	○*
RS485 communication cables	○	-

● Standard features ○ Optional features - Not available

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

\*\* Up to 50 m (165 ft) with SMA Bluetooth® Piggy-Back. Required for Sunny Boy 3000-US / 3800-US / 4000-US / 5000-US / 6000-US / 7000-US / 8000-US and 8000TL-US / 9000TL-US / 10000TL-US



**Communication with the inverters** via RS485 or Bluetooth



**Presentation of plant data** with Sunny Matrix or Flashview



Free, automatic **visualization** of the measurement data in Sunny Portal



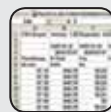
SD card slot for optional **memory expansion** and data transfer to a PC



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 a PC



**Flexible, simultaneous data transfer** to an FTP server and the Sunny Portal