SUNNY BOY 3.0 / 3.6 / 4.0 / 5.0 including SMA SMART CONNECTED





SMA Smart Connected

- Investment security included
- Automatic monitoring by SMA
- Proactive information and automatic service

Easy to Use

- Safe plug and play installation
- Commissioning via smartphone or tablet
- WLAN and intuitive webserver

Everything at a Glance

- Free online monitoring
- PV system data viewable via smartphone

Future-Proof

- SMA storage solutions, intelligent energy management and Smartmodule technology can be added at any time
- Dynamic feed-in control

SUNNY BOY 3.0 / 3.6 / 4.0 / 5.0

More than just an inverter. Smaller, simpler and more convenient with SMA Smart Connected

The new Sunny Boy 3.0 - 5.0 succeeds the globally successful Sunny Boy 3000 - 5000TL. It is more than just a PV inverter: with the integrated SMA Smart Connected service, it offers all-round comfort for PV system operators and installers alike. The automatic inverter monitoring by SMA analyzes operation, reports irregularities and thus minimizes downtime.

The Sunny Boy is ideally suited to solar power generation in private homes. Thanks to its extremely light design and location of the external connections, the device can be quickly installed and easily commissioned thanks to the intuitive webserver.

Current communication standards mean that intelligent energy management solutions as well as SMA storage solutions can be flexibly added to the inverter at any time.

SMA SMART CONNECTED

The integrated service for ease and comfort

SMA Smart Connected* is the free monitoring of the inverter via the SMA Sunny Portal. If there is an inverter fault, SMA proactively informs the PV system operator and the installer. This saves valuable working time and costs.

With SMA Smart Connected, the installer benefits from rapid diagnoses by SMA. They can thus quickly rectify the fault and score points with the customer thanks to the attraction of additional services.





ACTIVATION OF SMA SMART CONNECTED

During registration of the system in the Sunny Portal, the installer activates SMA Smart Connected and benefits from the automatic inverter monitoring by SMA.



AUTOMATIC INVERTER MONITORING

SMA takes on the job of inverter monitoring with SMA Smart Connected. SMA automatically checks the individual inverters for anomalies around the clock during operation. Every customer thus benefits from SMA's long years of experience.



PROACTIVE COMMUNICATION IN THE EVENT OF FAULTS

After a fault has been diagnosed and analyzed, SMA informs the installer and end customer immediately by e-mail. Everyone is thus optimally prepared for the troubleshooting. This minimizes the downtime and saves time and money. The regular power reports also provide valuable information about the overall system.



REPLACEMENT SERVICE

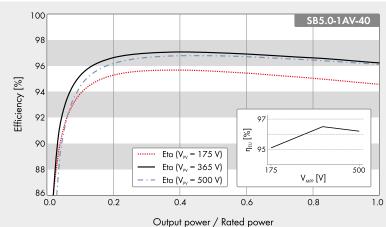
If a replacement device is necessary, SMA automatically supplies a new inverter within one to three days of the fault diagnosis. The installer can contact the PV system operator of their own accord and replace the inverter.



PERFORMANCE SERVICE

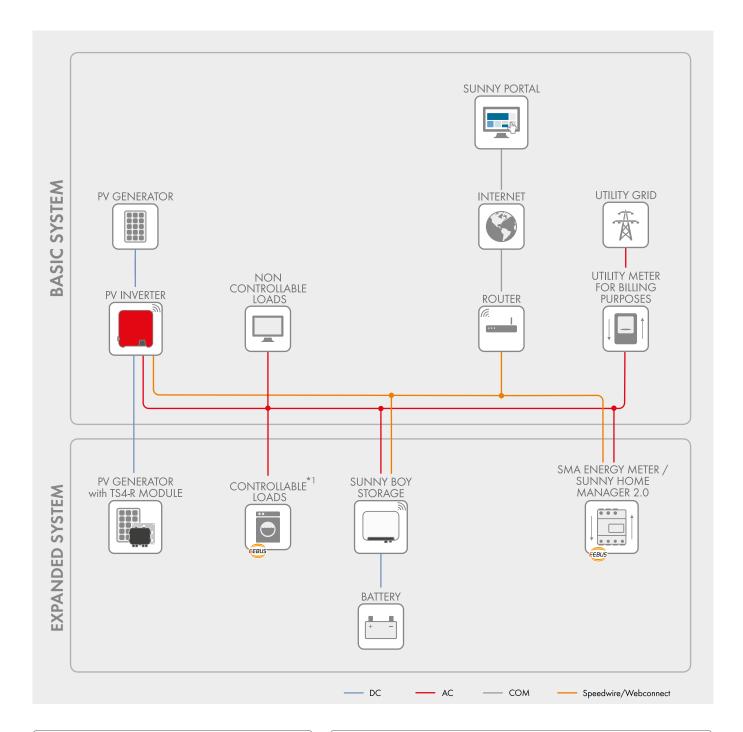
The PV system operator can claim compensation from SMA if the replacement inverter cannot be delivered within three days.

^{*} Details: see document "Description of Services - SMA SMART CONNECTED"



Efficiency curve

Imput (DC) Max. peparetrology S500 Wp S500 Wp T500 Wp		Output power / Rated power			
Max. signate voltage	Technical data	Sunny Boy 3.0	Sunny Boy 3.6	Sunny Boy 4.0	Sunny Boy 5.0
Max. input voltage MPP voltage range Rated input voltage Min. input voltage / initial input voltage 13 A / 15 A	Input (DC)				
MP voltage range	Max. generator power	5500 Wp	5500 Wp	7500 Wp	7500 Wp
Rade lingt voltage Mox. input current input A / input B 15 A / 15 A	Max. input voltage	600 V			
Mix. input valloge / Initial input valloge Mix. input valloge / Initial input A / input B Mix. input current input B Mix. input current input B Mix. input current input B Mix. input a / input B Mix. input current input B Mix. input a / input B Mix. input	MPP voltage range	110 V to 500 V	130 V to 500 V	140 V to 500 V	175 V to 500 V
Max. Input current input A / Input B Max. Input current input A / Input B Number of independent MPP input / Strings per MPP input Output IACI Rated power (al 230 V, 50 Hz) 3000 W 3680 W 4000 W 3000 W 3680 W 4000 W 5000 W ¹¹ Max. Apparent power AC 3000 VA 3000 VA 3680 VA 4000 VA 5000 VA ²¹ Nounhal AC Vollege / Inage 220 V, 230 V, 240 V Izi No V is 280 V AC power frequency / range AC power frequency / range Max. Application of the design of the control of the	Rated input voltage				
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Rated power (at 230 V, 50 Hz) Max. apparent power AC Nominal AC voltage / range AC power frequency / range AC power frequency / range Max. output current 10 A 10 B 10			•	,	
Max. approved power AC 3000 VA 3680 VA 4000 VA 5000 VA 6000	• • •	3000 W	3680 W	4000 W	5000 W ¹⁾
Nominal AC voltage / range		3000 VA			5000 VA ²⁾
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	Type designation	SB3.0-1AV-40	SB3.6-1AV-40	SB4.0-1 AV-40	SB5.0-1AV-40



BASIC SYSTEM functions

- Easy commissioning via integrated WLAN and Speedwire interface
- Maximum transparency thanks to visualization in the Sunny Portal / Sunny Places
- Safe investment through SMA Smart Connected
- Modbus as interface for third-party providers

EXPANDED SYSTEM functions

- Basic system functions
- Reduction in purchased electricity and increase in self-consumption through use of stored solar energy
- Maximum energy use thanks to forecast-based charging
- Increased self-consumption thanks to intelligent load control
- Maximum system yield through Smart module technology

With SMA Energy Meter*2

- Maximum system usage through dynamic limiting of feed-in to the grid between 0% and 100%
- Visualization of energy consumption
- * 1) via SMA radio-controlled socket or standardized data communication * 2) from FW version 1.03.03