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

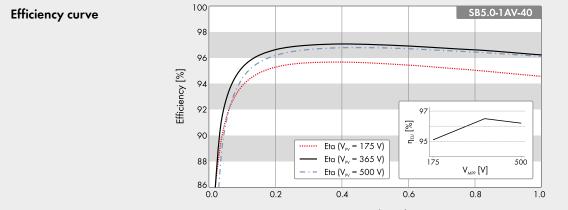
If a replacement device is necessary, SMA automatically supplies a new inverter within one to three days of the fault diagnosis. The installer can contact the PV system operator of their own accord and replace the inverter.



PERFORMANCE SERVICE

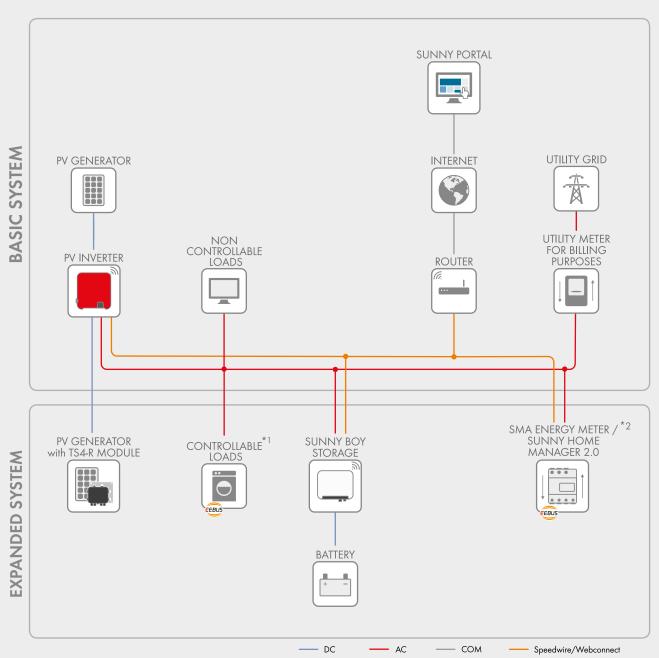
The PV system operator can claim compensation from SMA if the replacement inverter cannot be delivered within three days.

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



Output power / Rated power

Max. generator power 5500 Wp 7500 Wp 7500 Wp 7500 Wp Mix. input veltage 600 V 600 V 600 V 110 V to 500 V 130 V to 500 V 175 V to 500 V	Technical data	Sunny Boy 3.0	Sunny Boy 3.6	Sunny Boy 4.0	Sunny Boy 5.0
Max. Equip valetage 600 V 130 V to 500 V 130 V to 500 V 175 V to 500 V Rated input valtage 7 initial input valtage 7 input 8 input 8 into 7 input 8 input 8 into 7 input 8 i	Input (DC)				
MPP winkings mage 110 V to 500 V 130 V to 500 V 175 V to 500 V Min. Input winkings 365 V 365 V Min. Input winkings 100 V / 125 V Max. Input carrent input A / Input B 15 A / 15 A Number of independent MP input J wings per MP input Output A / Input B 130 V to 500 V 3680 W Max. appart apport AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 W ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 V ¹¹ Kind power AC 3000 W 3680 W 4000 W 5000 V ¹¹ Kind power AC 3000 V 3680 W 400 V A 5000 V ¹¹ Kind power AC	Max. generator power	5500 Wp	5500 Wp	7500 Wp	7500 Wp
Rade login voltage / initial input voltage / initial i	Max. input voltage		60	0 V	
Min. Enprit velonge / Initial Input velonge Max. Input artemi Input A / Input B Max. Input artemi Input A / Input B Max. Input artemi Input A / Input B Number of Independent MPI Input 3 Output IAC Output IAC Output IAC Output IAC Output IAC Output IAC Nonimal AC velonge / range AC velonge / r	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 CA: power frequency / rong a CA:	Rated input voltage		36	5 V	
Max. Injort arment per straig "nput A / Input B Nomiser of Independent MPP Inputs / strings per MPP Input Output (A2) Nominal AC voltage / range Ac apparent power AC Ac works and a conservation of the action of	Min. input voltage / initial input voltage		100 V ,	/ 125 V	
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Equipment DC connection / AC connection Display via smartphone, tablet, laptop Interfaces: WLAN, Speedwire / Webconnect Warranty: 5 / 10 / 15 years Certificates and approvals (more available upon request) AS 4777, C10/11, CE, CEI 0-21, EN 50438, G59/3, G83/2, DIN EN 62109 / IEC 621 NEN-EN50438, RD1699, SI 4777, UTE C15-712, VDE-AR-N 4105, VDE0126-1-1, VFR 20 Certificates and approvals (planned) Country availability of SMA Smart Connected AU, AT, BE, CH, DE, ES, FR, IT, LU, NL, UK • Standard features • Optional features - Not available Data at nominal conditions 2) AS 4777; 21.7 A	Climatic category (as per IEC 60721-3-4)		4K	(4H	
DC connection / AC connection SUNCLIX / AC connector Display via smartphone, tablet, laptop • Interfaces: WLAN, Speedwire / Webconnect •/• Warranty: 5 / 10 / 15 years •/•/○ Certificates and approvals (more available upon request) AS 4777, C10/11, CE, CEI 0-21, EN 50438, G59/3, G83/2, DIN EN 62109 / IEC 62109 Certificates and approvals (planned) IEC 61727, NRS 097-2-1 Country availability of SMA Smart Connected AU, AT, BE, CH, DE, ES, FR, IT, LU, NL, UK • Standard features • Optional features - Not available AU, AT, BE, CH, DE, ES, FR, IT, LU, NL, UK • J A 4000 W/ 4600 VA according to VDE-AR:N 4105 2) AS 4777: 21.7 A	Max. permissible value for relative humidity (non-condensing)		10	0%	
Display via smartphone, tablet, laptop Interfaces: WLAN, Speedwire / Webconnect Warranty: 5 / 10 / 15 years Certificates and approvals (more available upon request) Certificates and approvals (planned) Certificates and approvals (planned) Country availability of SMA Smart Connected Standard features O Optional features – Not available Data at nominal conditions Status: March 2017 1) 4600 W / 4600 VA according to VDE-AR:N 4105 2) AS 4777: 21.7 A	Equipment				
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	Type designation	SB3.0-1AV-40	SB3.6-1AV-40	SB4.0-1AV-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*³
- 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) scheduled for mid-2017 via software update
* 3) SMA Smart Connected for systems with Sunny Home Manager, scheduled for mid-2017 via software update

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