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SUNNY BOY 3.0 / 3.6 / 4.0 / 5.0

The new Sunny Boy 3.0 – 5.0 succeeds the globally successful Sunny Boy 3000 – 5000TL and it is more than just an inverter. Smaller, simpler and more convenient with SMA Smart Connected

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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.

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.

SPECIFICATIONS

Technical Data	Sunny Boy 3.0	Sunny Boy 3.6	Sunny Boy 4.0	Sunny Boy 5.0
Input (DC)				
Max. generator power	5500 Wp	5500 Wp	7500 Wp	7500 Wp
Max. input voltage	600 V			
MPP Voltage range	110 to 500 V	130 to 500 V	140 to 500 V	175 to 500 V
Rated input voltage	365 V			
Min. input voltage / initial input voltage	100 V / 125 V			

voltage				
Max. input current input A / input B	15 A / 15 A			
Max. input current per string input A / input B	15 A / 15 A			
Number of independent MPP inputs	2			
Strings per MPP input	A: 2 - B: 2			
Output (AC)				
Rated power (at 230 V, 50 Hz)	3000 W	3680 W	4000 W	5000 W 1)
Max. apparent power AC	3000 VA	3680 VA	4000 VA	5000 VA 1)
Nominal AC voltage / Range	220V, 230V, 240V, / 180 to 280 V			
AC Power frequency / range	50 Hz, 60 Hz / - 5 Hz to + 5 Hz			
Rated grid voltage / Rated power frequency	230 V / 50 Hz			
Max. output current	16 A	16 A	22 A 2)	22 A 2)
Power factor at rated power	1			
Adjustable displacement power factor	0,8 overexcited to 0,8 underexited			
Feed-in phases / connection phases	1 / 1			
Efficiency				
Max. efficiency	97,0 %	97,0 %	97,0 %	97,0 %
European Efficiency	96,4 %	96,5 %	96,5 %	96,5 %
Protective devices				
Input-side disconnection point	Standard			
Ground fault monitoring	Standard			
Grid monitoring	Standard			
DC reverse polarity protection	Standard			
AC short	Standard			

circuit current capability	
All pole sensitive residual current monitoring unit	Standard
Protection class (as per IEC 62103)	I
Overvoltage category (according to IEC 60664-1)	III
General Data	
Dimension (W / H / D)	435 / 470 / 176 mm
Weight	16 Kg
Operating temperature range	- 25 to 60 °C
Noise emission, typical	25 dB (A)
Self-consumption (at night)	1 W
Topology	Transformerless
Cooling method	Convection
Degree of protection (as per IEC 60529)	IP65
Climatic category (as per IEC 60721-3-4)	4K4H
Max. permissible value for relative humidity	100% (non-condensing)
Equipment	
DC connection / AC Connection	SUNCLIX / AC Connector
Display	Via Smartphone, tablet or laptop
Interfaces	WLAN, Speedwire / Webconnect
Warranty	5 Years (10, 15 years optional)
Certificates and approvals	AS 4777, C10/11, CE, CEI 0-2-1, EN 50438, G59/3, G83/2, DIN EN 62109 / IEC 62109, NEN-EN50438, RD1699, SI 4777, UTE C15712, VDE-AR-N 4105, VDE0126-1-1, VFR 2014

Type designation	SB3.0-1AV-40	SB3.6-1AV-40	SB4.0-1AV-40	SB5.0-1AV-40

1) 4600 W / 4600 VA for VDE-AR-N 4105

2) AS 4777: 21,7 A

DOWNLOADS

SUNNY BOY 1.5 - 2.5

Sunny Boy 15-25-EN.pdf (460.64 KiB)
Size: 460.64 KiB

SUNNY BOY 3.0 - 5.0

SB30-50-DEN1721-V24web.pdf (566.14 KiB)
Size: 566.14 KiB

SUNNY BOY STORAGE SB25

Sunny Boy Storage SB25-EN.pdf (452.79 KiB)
Size: 452.79 KiB

SUNNY BOY SMART ENERGY

Sunny Boy Smart Energy EN.pdf (353.33 KiB)
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SMA TIGO TS4 EN

SMA Tigo TS4 EN.pdf (412.73 KiB)
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SMA SUNNY BOY TL EN

SMA Sunny Boy TL EN.pdf (552.85 KiB)
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SMA SUNNY TRIPOWER 5-12000 TL EN

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