

SUNNY BOY 1.5 / 2.5

The new standard for small PV systems



SMA Sunny Boy 1.5 / 2.5

It's so easy to reap the benefits of solar power: The completely redesigned **Sunny Boy 1.5/2.5** is the perfect inverter for customers who want to take full advantage of their **small PV system**. Among other features, it enables an **increase in consumption of self-generated power**, allows versatile uses, and is very easy to integrate into the home network. In addition, its innovative design and new communication concept offer many advantages during installation and commissioning. Thanks to direct communication with the SMA Energy Meter, both limitation to 70 percent, which is required in Germany, and limitation to 0 percent is possible.

EASY TO USE WITH A NEW INSTALLATION CONCEPT

The innovative design of the Sunny Boy 1.5/2.5 is not only easy to install, but also allows for quick DC and AC connections. For example, because it weighs just 9 kg, it can be suspended from just two screws, with no additional wall mounting bracket. Commissioning is equally easy, because the integrated user interface (Web UI) makes it possible to choose the necessary settings in next to no time – without opening the cover.

- Rapid commissioning with the intuitive Web UI
- Easy installation thanks to a low weight of just 9 kg and an intelligent connection concept
- Broad input voltage range of 80 to 600 V
- Flexibility in choice of module

INFORMATIVE WITH AN INNOVATIVE COMMUNICATION CONCEPT

With its focus on what really matters, the Sunny Boy 1.5/2.5 also offers impressive communication features. The intuitive user interface (Web UI) makes it possible to monitor system data on any smartphone, tablet, laptop or traditional PC. This enables the user to choose between local and online monitoring via Sunny Places and Sunny Portal.

- New communication concept thanks to Web UI
- System data monitoring possible on all smartphones and tablets
- Choose between local and online monitoring via Sunny Portal and Sunny Places
- Factory-integrated Ethernet and WLAN interface
- Professional Monitoring via Webconnect with the Sunny Portal Professional Package

SPECIFICATIONS

	Sunny Boy 1.5	Sunny Boy 2.0	Sunny Boy 2.5
DC Input			
Max. PV array power	3000 W	4000 W	5000 W
Max. input voltage	600 V	600 V	600 V
MPP Voltage range	160 to 500 V	210 to 500 V	260 to 500 V
Rated input voltage	360 V	360 V	360 V
Min. Input voltage / initial input voltage	50 / 80 V	40 / 80 V	50 / 80 V
Max. input current	10 A	10 A	10 A
Max. short-circuit current per string	18 A	18 A	18 A
Number of independent MPP inputs / strings per MPP input	1 / 1	1 / 1	1 / 1
AC Output			
Rated power at 230V, 50 Hz	1500 W	2000 W	2500 W
Max. apparent AC power	1500 VA	2000 VA	2500 VA
Nominal AC voltage	220 / 230 / 240 V	220 / 230 / 240 V	220 / 230 / 240 V
Nominal AC voltage range	180 to 280 V	180 to 280 V	180 to 280 V
AC power frequency / range	50, 60 Hz / - 5 to +5 Hz	50, 60 Hz / - 5 to +5 Hz	50, 60 Hz / -5 to +5 Hz
Rated power frequency / rated grid voltage	50 Hz / 230 V	50 Hz / 230 V	50 Hz / 230 V
Max. output current	7 A	9 A	11 A
Power factor at rated power	1	1	1
Factor de desfase ajustable	0.8 overexcited to 0.8 underexcited		
Feed-in phases / connection phases	1 / 1	1 / 1	1 / 1
Efficiency			
Max. Efficiency	97,2 %	97,2 %	97,2 %
European weighted efficiency	96,1 %	96,4 %	96,7 %
Protection Devices			
DC-side disconnection point	Yes	Yes	Yes
Ground fault monitoring	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes

DC reverse polarity protection	Yes	Yes	Yes
AC short-circuit current capability	Yes	Yes	Yes
AC short-circuit current capability galvanic isolated	No	No	No
All-pole sensitive residual-current monitoring unit	Yes	Yes	Yes
Protection class according to IEC 62193	I	I	I
Overvoltage category according to IEC 60664-1	III	III	III
Reverse current protection	Not required	Not required	Not required
General Data			
Dimensions (W x H x D)	460 x 357 x 122 mm		
Weight	9,2 Kg		
Operating temperature range	-40 to +60 °C		
Noise emission, typical	< 25 dB	< 25 dB	< 25 dB
Self-consumption (at night)	2,0 W	2,0 W	2,0 W
Topology	Transformerless	Transformerless	Transformerless
Cooling method	Convection	Convection	Convection
Degree of protection according to IEC 60529	IP65	IP65	IP65
Climatic category according to IEC 60721-3-4	4K4H	4K4H	4K4H
Max. permissible value for relative humidity (non-condensing)	100 %	100 %	100 %
Features			
DC connection / AC connection	Sunclix / connector	Sunclix / connector	Sunclix / connector
Display	No	No	No
Interface RS485	No	No	No
Bluetooth	No	No	No
Speedwire / Webconnect	Yes	Yes	Yes
WLAN	Yes	Yes	Yes
Integrated web server	Yes	Yes	Yes
Warranty	5 Years Optional, warranty extension to 10, 15, 20 or 25 years		
Certificates and approvals	AS4777.3, C10/11/2012, CEI0-21Int, EN50438, G83/2, IEC61727, IEC62116, IEC62109, NBR16149, NEN-EN50438, NRS097-2-1, VDE-AR-N4105, VDE 0126-1-1, VFR2014		

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