# SUNNY BOY 1.5 / 2.5





### **Flexible**

- Broad input voltage range
- Integrated WLAN and Speedwire/ Webconnect interface with Webconnect function
- Wired or wireless communication

#### Communicative

- New communication concept with integrated web server
- System data monitoring possible via WebUI on all smartphones and tablets
- Pulsating LED

## **Future-Proof**

- OptiTrack Global Peak
- Maintenance free, thanks to convection cooling
- Zero feed-in ready
- Direct E-Meter connection

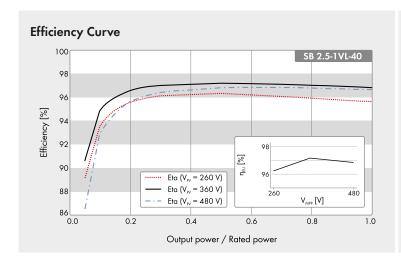
### Easy to Use

- SUNCLIX DC plug-in system
- Easy installation, low weight and size, transformerless
- Easy commissioning via WebUI

# **SUNNY BOY 1.5 / 2.5**

The new standard for small PV systems

The new Sunny Boy 1.5 / 2.5 is the perfect inverter for customers with small PV systems. Thanks to its broad input voltage range of 80 V to 600 V, its versatility, flexibility in module compatibility and low weight for easy installation are impressive. After smooth commissioning via WebUI, the Sunny Boy 1.5 / 2.5 is ideal for local monitoring via the device's own wireless home network or for online monitoring with Sunny Portal or Sunny Places.



• Standard features O Optional – Not available Data at nominal conditions
Last revision: March 2015

Technical Data	Sunny Boy 1.5	Sunny Boy 2.5
Input (DC)		
Max. DC power ( $@\cos \varphi = 1$ )	1,600 W	2,650 W
Max. input voltage	600 V	600 V
MPP voltage range	160 V to 500 V	260 V to 500 V
Rated input voltage	360 V	360 V
Min. input voltage / initial input voltage	50 V / 80 V	50 V / 80 V
Max. input current	10 A	10 A
Max. input current per string	10 A	10 A
Number of independent MPP inputs / strings per MPP input	1/1	1/1
Output (AC)	,	,
Rated power (at 230 V, 50 Hz)	1,500 W	2,500 W
Max. apparent AC power	1,500 VA	2,500 VA
Nominal AC voltage	220 V / 230 V / 240 V	220 V / 230 V / 240 V
Nominal AC voltage range	180 V to 280 V	180 V to 280 V
AC power frequency/range	50 Hz, 60 Hz / -5 Hz to +5 Hz	50 Hz, 60 Hz / -5 Hz to +5 H
Rated power frequency/rated grid voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	7 A	11 A
Power factor at rated power	7 A	1
	0.8 overexcited to	. 0.0
Adjustable displacement power factor		
Feed-in phases/connection phases	1/1	1 / 1
Efficiency	07.0 % / 0/ 1.0/	07.0 % / 04.7 %
Max. efficiency / European weighted efficiency	97.2 % / 96.1 %	97.2 % / 96.7 %
Protective Devices		
DC-side disconnection point	•	•
Ground fault monitoring / grid monitoring	• / •	• / •
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated	• / • / -	● / ● / –
All-pole sensitive residual-current monitoring unit	•	•
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	1/111	1/111
Reverse current protection	Not required	Not required
General Data		
Dimensions (W / H / D)	460 / 357 / 122 mm (18.1 / 14.1 / 4.8 inches)	
Weight	9.2 kg (20.3 lbs)	
Operating temperature range	-40 °C to +60 °C (-40 °F to +140 °F)	
Noise emission, typical	<25 dB	<25 dB
Self-consumption (at night)	2.0 W	2.0 W
Topology	Transformerless	Transformerless
Cooling method	Convection	Convection
Degree of protection (according to IEC 60529)	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %	100 %
Features		
DC connection / AC connection	SUNCLIX / connector	SUNCLIX / connector
Display	_	_
Interfaces: RS485, Bluetooth®, Speedwire / Webconnect, WLAN	-/-/●/●	-/-/●/●
Integrated web server	•	•
Warranty: 5 / 10 / 15 / 20 / 25 years	•/0/0/0/0	•/0/0/0/0
Certificates and approvals (others available upon request)	AS4777.3, C10/11/2012, VDE-AR-N4105, CEI0-21Int, NEN-EN50438, G83/2, EN50438, VFR2014	
Type designation	SB 1.5-1VL-40	SB 2.5-1VL-40