Flexible

- Broad input voltage range
- Integrated WLAN and Speedwire interface with Webconnect functionality

Easy to use

- Direct connection to Sunny Portal and Sunny Places
- Local monitoring by smartphone/ tablet
- Pulsating LED

Future-proof

- Storage system, intelligent energy management and smart-module technology can be added at any time
- Shade management OptiTrac Global Peak
- Dynamic feed-in control

Simple

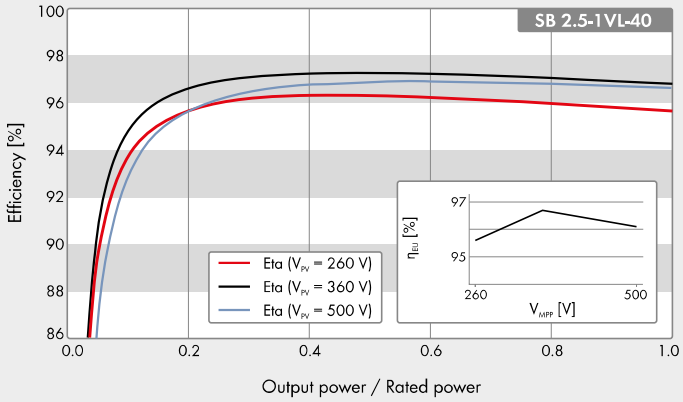
- SUNCLIX DC plug-in system
- Easy installation, low weight, transformerless
- Fast commissioning by smartphone/ tablet via integrated web interface

SUNNY BOY 1.5 / 2.5

The new standard for small PV systems

The Sunny Boy 1.5 / 2.5 is the perfect inverter for customers with small PV systems. With a broad input voltage range from 80 V to 600 V, flexibility with a variety of PV module types and makes, and its low weight for easy installation, the Sunny Boy 1.5/2.5 is perfect for inverter upgrades and new PV systems. After smooth commissioning via the integrated web interface, 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.

Efficiency curve



● Standard features ○ Optional features – not available
Data in nominal conditions
Last updated: December 2017

Technical data	Sunny Boy 1.5	Sunny Boy 2.5
Input (DC)		
Max. PV array power	3000 Wp	5000 Wp
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 per string	10 A	10 A
Max. short-circuit current per string	18 A	18 A
Number of independent MPP inputs / strings per MPP input	1 / 1	1 / 1
Output (AC)		
Rated power (at 230 V, 50 Hz)	1500 W	2500 W
Max. apparent AC power	1500 VA	2500 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 grid frequency / range	50 Hz, 60 Hz / -5 Hz to +5 Hz	50 Hz, 60 Hz / -5 Hz to +5 Hz
Rated grid frequency / rated grid voltage	50 Hz / 230 V	50 Hz / 230 V
Max. output current	7 A	11 A
Power factor at rated power	1	1
Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited	
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / Euro-eta	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 (as per IEC 62103) / surge category (according to IEC 60664-1)	I / III	I / III
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 concept	Convection	Convection
Degree of protection (as per IEC 60529)	IP65	IP65
Climatic category (as per IEC 60721-3-4)	4K4H	4K4H
Max. permissible value for relative humidity (non-condensing)	100%	100%
Features		
DC connection / AC connection	SUNCLIX / connector	SUNCLIX / connector
Display via smartphone, tablet, laptop	●	●
Interfaces: WLAN, Speedwire / Webconnect	● / ●	● / ●
Warranty: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○	● / ○ / ○ / ○
Certificates and permits (more available upon request)	AS4777, C10/11/2012, CEI0-21Int, EN50438, G83/2, IEC 61727, IEC 62116, IEC 62109, NBR16149, NEN-EN50438, NRS097-2-1, VDE-AR-N4105, VDE 0126-1-1, VFR2014	
Type designation	SB 1.5-1VL-40	SB 2.5-1VL-40