

SB 2100TL

Efficient

- > 96 % efficiency
- > Transformerless

Safe

- > Integrated ESS DC load disconnecting unit

Reliable

- > Worldwide SMA service including Service Line
- > Attractive SMA warranty program



SUNNY BOY 2100TL

The great among the small

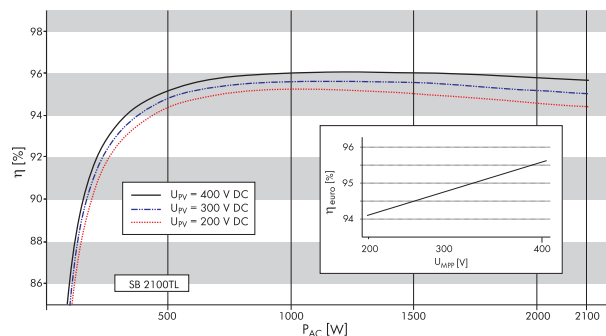
With an efficiency level of 96 % the transformerless Sunny Boy 2100TL guarantees first-class energy yields and thus an outstanding price/performance ratio. The tried and tested inverter is particularly suitable for use in small PV systems as well as in sub-generators in larger systems. Its low weight and robust housing enable easy installation. The integrated DC load-disconnecting switch saves the system operator the cost of an external switching device. In addition, the Sunny Boy 2100TL is equipped with an all-pole sensitive leakage current monitoring unit, which guarantees safe operation at all times. As with all Sunny Boys, the Sunny Boy 2100TL is also compatible with SMA communication products.

Technical data

SUNNY BOY 2100TL

	SB 2100TL	
Input (DC)		
Max. DC input power	2200 W	
Max. DC voltage	600 V	
PV voltage range, MPPT (at rated power)	200 V - 480 V	
Max. input current	11 A	
Number of MPPT trackers	1	
Max. number of strings (parallel)	2	
Output (AC)		
Nominal AC output power	1950 W	
Max. AC output power	2100 W	
Max. output current	11 A	
Nominal AC voltage / range	220 V - 240 V / 180 V - 260 V	
AC grid frequency (self-adjusting) / range	50 Hz / ± 4.5 Hz	
Power factor (cos ϕ)	1	
AC connection	single-phase	
Efficiency		
Max. efficiency	96.0 %	
Euro ETA	95.2 %	
Protective equipment		
DC reverse polarity protection	●	
DC load-disconnecting switch ESS	●	
AC short-circuit tolerance	●	
Ground fault monitoring	●	
Grid monitoring (SMA grid guard)	●	
Integrated all-pole sensitive leakage current monitoring unit	●	
General data		
Dimensions (W / H / D) in mm	434 / 295 / 214	
Weight	16 kg	
Operating temperature range	-25 °C to +60 °C	
Noise emission (typical)	≤ 33 dB(A)	
Operating consumption: Operating (standby) / night	< 7 W / 0.1 W	
Topology	transformerless	
Cooling concept	convection	
Mounting location: indoor / outdoor (IP65)	● / ●	
Features		
DC connection: MC3 / MC4 / Tyco	● / ○ / ○	
AC connection: plug connector	●	
LCD display	●	
Cover color: red	●	
Interfaces: RS485 / radio	○ / ○	
Warranty: 5 years / 10 years	● / ○	
Certificates and approvals	www.SMA.de	
● Standard equipment ○ Optional	Data at nominal conditions	Version: April 2009

Efficiency curve



Accessories

- Wireless communication with the inverters**
- USB interface** for data transmission to PC and charging of the batteries
- Easy and intuitive operation with the rotating pushbutton**
- Compact and lightweight**
Dimensions: 127 x 75 x 195 mm
Weight: approx. 350 g
- Large easy-to-read LCD display**