

## SB 3000TL-20

**Leading-Edge Technology**

- > Maximum efficiency of 97 %
- > Integrated ESS DC load disconnecting unit
- > Transformerless with H5 topology
- > Convection cooling
- > MPP Control OptiTrac

**Easy installation**

- > Convenient front wiring compartment
- > Cabling without tools
- > Ergonomic design

**Universal**

- > Simple country configuration
- > Multi-language display

**Communication**

- > Bluetooth technology
- > Graphic display
- > Comprehensive SMA warranty program



# SUNNY BOY 3000TL

## Perfection Plus. Usability.

More communicative, easier to use and more efficient than ever: As the successor of Sunny Boy 3300TL HC, Sunny Boy 3000TL is setting new standards in inverter technology. A modern graphic display, which shows the daily values even after sunset, simplified installation concept and wireless communication via Bluetooth: As a family member of the new generation, it is perfectly suitable for small rooftop-mounted installations. With a peak efficiency of 97 %, the transformerless inverter offers optimum solar yield. Because of the integrated anti-theft protection, it offers additional security.

# Technical Data

## SUNNY BOY 3000TL

	SB 3000TL-20	
<b>Input (DC)</b>		
Max. DC power	3200 W	
Max. DC voltage	550 V	
PV voltage range, MPPT	125 V – 440 V	
Recommended range at nominal power	188 V – 440 V	
Max. input current	17 A	
Number of MPPT trackers	1	
Max. number of strings (parallel)	2	
<b>Output (AC)</b>		
Nominal AC output	3000 W	
Max. AC power	3000 W	
Max. output current	16 A	
Nominal AC voltage / range	220 V - 240 V / 180 V - 280 V	
AC grid frequency / range	50 Hz, 60 Hz / $\pm 5$ Hz	
Power factor (cos $\varphi$ )	1	
AC Connection	single-phase	
<b>Efficiency</b>		
Max. efficiency	97.0 %	
Euro $\eta$	96.3 %	
<b>Protection device</b>		
DC reverse polarity protection	●	
DC load disconnecting switch ESS	●	
AC short-circuit protection	●	
Ground fault monitoring	●	
Grid monitoring (SMA grid guard)	●	
Integrated all pole sensitive leakage current monitoring unit	●	
<b>General Data</b>		
Dimensions (W / H / D) in mm	470 x 445 x 180	
Weight	22 kg	
Operating temperature range	-25 °C ... +60 °C	
Noise emission (typical)	$\leq 25$ dB(A)	
Consumption: operating (standby) / night	< 10 W / < 0.5 W	
Topology	transformerless	
Cooling concept	convection	
Installation: Indoor / Outdoor (electronics IP 65 / connection compartment IP 54)	●/●	
<b>Features</b>		
DC connection: MC3 / MC4 / Tyco	○/●/○	
AC-connection: Terminals	●	
Graphic display	●	
Interfaces: Bluetooth / RS485	●/○	
Warranty: 5 years / 10 years	●/○	
Certificates and Approvals	www.SMA.de	
● Standard    ○ Optional	Values apply for nominal conditions - date March 2009	

### Efficiency curve

