

The New Generation of SUNNY BOY

	SB 3000TL-20	SB 4000TL-20	SB 5000TL-20
Input (DC)			
Max. DC-power	3200 W	4200 W	5300 W
Max. DC-voltage	550 V	550 V	550 V
PV voltage range, MPPT	125 V - 440 V	125 V - 440 V	125 V - 440 V
Recommended range at nominal power	188 V - 440 V	175 V - 440 V	175 V - 440 V
Max. input current	17 A	2 x 15 A	2 x 15 A
Number of MPP-trackers	1	2	2
Max. number of strings (parallel)	2	2 x 2	2 x 2
Output (AC)			
Nominal AC-output	3000 W	4000 W	4600 W
Max. AC-power	3000 W	4000 W	5000 W
Max. output current	16 A	22 A	22 A
Nominal AC voltage / range	220 V - 240 V / 180 V - 280 V	220 V - 240 V / 180 V - 280 V	220 V - 240 V / 180 V - 280 V
AC grid frequency / range	50 Hz, 60 Hz / ± 5 Hz	50 Hz, 60 Hz / ± 5 Hz	50 Hz, 60 Hz / ± 5 Hz
Power factor (cos φ)	1	1	1
AC connection	single-phase	single-phase	single-phase
Efficiency			
Max. efficiency	97.0 %	97.0 %	97.0 %
Euro ETA	96.3 %	96.4 %	96.5 %
Protection systems			
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	●	●	●
General Data			
Dimensions (W / H / D) in mm	470 x 445 x 180	470 x 445 x 180	470 x 445 x 180
Weight	22 kg	25 kg	25 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission	≤ 25 dB(A)	≤ 29 dB(A)	≤ 29 dB(A)
Consumption: operating (standby) / night	< 10 W / < 0.5 W	< 10 W / < 0.5 W	< 10 W / < 0.5 W
Topology	transformerless	transformerless	transformerless
Cooling concept	convection	OptiCool	OptiCool
Installation: indoor / outdoor (electronics IP65 / connection compartment IP54)	●/●	●/●	●/●
Features			
DC connection: MC3 / MC4 / Tyco	○/●/○	○/●/○	○/●/○
AC-connection: spring-clamp terminals	●	●	●
Graphic display	●	●	●
Interfaces: Bluetooth / RS485	●/○	●/○	●/○
Warranty: 5 years / 10 years	●/○	●/○	●/○
Certificates and approvals	●	●	●
● Standard ○ Optional As per April 2009	www.SMA.de	www.SMA.de	www.SMA.de
	Data at nominal conditions	Data at nominal conditions	Data at nominal conditions

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