



SUNNY BOY 3000TL / 4000TL / 5000TL

SB 3000TL-20 / SB 4000TL-20 / SB 5000TL-20



High Yields

Maximum efficiency of
Multi-String technology
Transformerless with H5 topology
Shade management with OptiTrac
Global area

Safe

Integrate ESS DC switch-
disconnecter

Simple

Easily accessible connection area
Connection without tools
DC plug system SUNCLI

Communicative

Bluetooth® telemetry
? ultrasonic
? ultrasonic

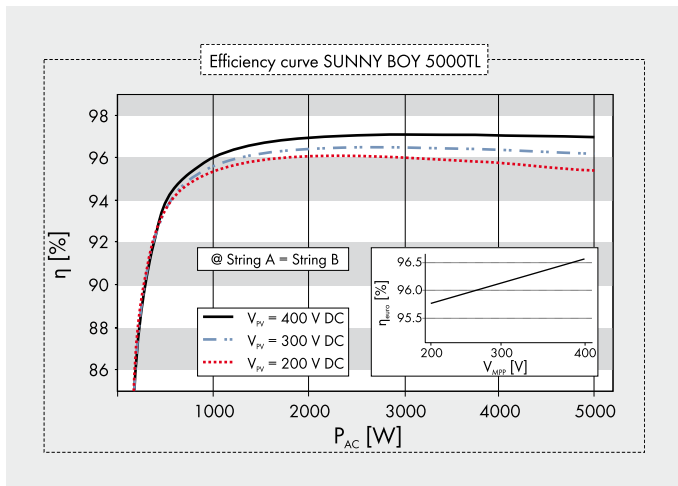
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Perfection Plus. Usability. The transformerless Sunny Boy generation

...communicate easier to use and more efficient than ever this Sunny Boy is setting new standards in inverter technology. ... Bluetooth® ...

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| Technical data | Sunny Boy 3000TL | Sunny Boy 4000TL | Sunny Boy 4000TL/V | Sunny Boy 5000TL |
|--|--|------------------------|------------------------|------------------------|
| Input (DC) | | | | |
| Max. DC power (cos φ) | 3200 | 4200 | 4200 | 5300 |
| Max. DC voltage | 550 V | 550 V | 550 V | 550 V |
| MPP voltage range | V 440 V | V 440 V | V 440 V | V 440 V |
| DC nominal voltage | 400 V | 400 V | 400 V | 400 V |
| Min. DC voltage / start voltage | 25V/ 50V | 25V/ 50V | 25V/ 50V | 25V/ 50V |
| Max. input current / per string | A/ A | 2 5A/ 5A | 2 5A/ 5A | 2 5A/ 5A |
| Number of MPP trackers / strings per MPP tracker | / 2 | 2 / A 2 B 2 | 2 / A 2 B 2 | 2 / A 2 B 2 |
| Output (AC) | | | | |
| AC nominal power (230 V 50 Hz) | 3000 | 4000 | 4000 | 5000 |
| Max. AC apparent power | 3000 VA | 4000 VA | 4000 VA | 5000 VA |
| Nominal AC voltage range | 220 230 240 V 02 0V | 220 230 240 V 02 0V | 220 230 240 V 02 0V | 220 230 240 V 02 0V |
| AC grid frequency range | 50 0Hz 5 Hz | 50 0Hz 5 Hz | 50 0Hz 5 Hz | 50 0Hz 5 Hz |
| Max. output current | A | 22 A | 22 A | 22 A |
| Power factor (cos φ) | | | | |
| Phase conductors / connection phases | / | / | / | / |
| Efficiency | | | | |
| Max. efficiency / Euro-eta | .0 / .3 | .0 / .4 | .0 / .4 | .0 / .5 |
| Protection devices | | | | |
| DC reverse-polarity protection | | | | |
| ESS switch-disconnector | | | | |
| AC short circuit protection | | | | |
| Ground fault monitoring | | | | |
| Grid monitoring (SMA GridGuard) | | | | |
| Galvanically isolated / all-pole sensitive fault current monitoring unit | / | / | / | / |
| Protection class / overvoltage category | I / III | I / III | I / III | I / III |
| General data | | | | |
| Dimensions (H / W / D) in mm | 4 0' 445 / 0 | 4 0' 445 / 0 | 4 0' 445 / 0 | 4 0' 445 / 0 |
| Weight | 22 g | 25 g | 25 g | 25 g |
| Operating temperature range | 25 C 0 C | 25 C 0 C | 25 C 0 C | 25 C 0 C |
| Noise emission (typical) | 25 dB(A) | 2 dB(A) | 2 dB(A) | 2 dB(A) |
| Internal consumption (night) | 0.5 | 0.5 | 0.5 | 0.5 |
| Topology | transformerless | transformerless | transformerless | transformerless |
| Cooling concept | Convection | OptiCool | OptiCool | OptiCool |
| Electronics protection rating / connection area (as per IEC 60529) | IP 5 / IP54 | IP 5 / IP54 | IP 5 / IP54 | IP 5 / IP54 |
| Climatic category (per IEC 60721-3-4) | 4 4H | 4 4H | 4 4H | 4 4H |
| Features | | | | |
| DC connection | SUNCLI | | | |
| AC connection | screw terminal / plug connector / spring-type terminal | / / | / / | / / |
| Display | line / graphic | / | / | / |
| Interfaces | S4 / Blueboth® | ! | ! | ! |



Accessories

S4 interface
DM-4 5CB-0