



Efficient

- Maximum efficiency of 98 %
- The best tracking efficiency with OptiTrac MPP tracking
- Transformerless, with H5 topology

- OptiCool active temperature management

Safe

- SMA Power Balancer for three-phase power supply line
- Integrated ESS DC switch-disconnector
- Monitored string fuses

Simple

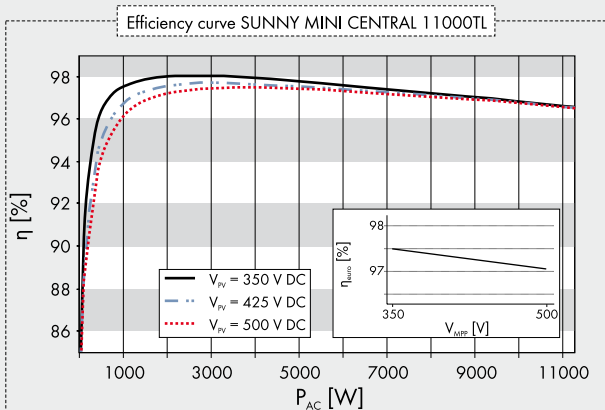
- DC plug system SUNCLIX

SUNNY MINI CENTRAL 9000TL / 10000TL / 11000TL

Precise plant design for maximum yield

Simple realization of medium and large PV plants from 27 kWp up to the megawatt range: the Sunny Mini Central inverters in the performance classes from nine to eleven kW allow almost limitless possibilities, and are easy to combine. The combination of high efficiency and low specific price ensures a short amortization time. In addition, the decentralized plant design helps to keep maintenance costs low. SMA's Sunny Mini Central: state-of-the-art technology which pays off with every sunbeam.

Technical data	Sunny Mini Central 9000TL	Sunny Mini Central 10000TL	Sunny Mini Central 11000TL
Input (DC)			
Max. DC power (@ cos φ = 1)	9300 W	10350 W	11400 W
Max. DC voltage	700 V	700 V	700 V
MPP voltage range	333 V – 500 V	333 V – 500 V	333 V – 500 V
DC nominal voltage	350 V	350 V	350 V
Min. DC voltage / start voltage	333 V / 400 V	333 V / 400 V	333 V / 400 V
Max. input current / per string	28 A / 28 A	31 A / 31 A	34 A / 34 A
Number of MPP trackers / strings per MPP tracker	1 / 5	1 / 5	1 / 5
Output (AC)			
AC nominal power (@ 230 V, 50 Hz)	9000 W	10000 W	11000 W
Max. AC apparent power	9000 VA	10000 VA	11000 VA
Nominal AC voltage; range	220, 230, 240 V; 180 V – 260 V (262 V*)	220, 230, 240 V; 180 V – 260 V (262 V*)	220, 230, 240 V; 180 V – 260 V (262 V*)
AC grid frequency; range	50, 60 Hz; ± 4.5 Hz	50, 60 Hz; ± 4.5 Hz	50, 60 Hz; ± 4.5 Hz
Max. output current	40 A	44 A	48 A
Power factor (cos φ)	1	1	1
Phase conductors / connection phases / power balancing	1 / 1 / ●	1 / 1 / ●	1 / 1 / ●
Efficiency			
Max. efficiency / Euro-eta	98.0 % / 97.6 %	98.0 % / 97.5 %	98.0 % / 97.5 %
Protection devices			
DC reverse-polarity protection / reverse current protection	●/○ (Fuses)	●/○ (Fuses)	●/○ (Fuses)
ESS switch-disconnector	●	●	●
AC short circuit protection	●	●	●
Ground fault monitoring	●	●	●
Grid monitoring (SMA Grid Guard)	●	●	●
Galvanically isolated / all-pole sensitive fault current monitoring unit	–/●	–/●	–/●
DC overvoltage protector (type II), can be integrated	–	–	–
String failure detection	–	–	–
Protection class / overvoltage category	I / III	I / III	I / III
General data			
Dimensions (W / H / D) in mm	468 / 613 / 242	468 / 613 / 242	468 / 613 / 242
Weight	35 kg	35 kg	35 kg
Operating temperature range	–25 °C ... +60 °C	–25 °C ... +60 °C	–25 °C ... +60 °C
Noise emission (typical)	≤ 42 dB(A)	≤ 45 dB(A)	≤ 46 dB(A)
Internal consumption (night)	0.25 W	0.25 W	0.25 W
Topology	transformerless	transformerless	transformerless
Cooling concept	OptiCool	OptiCool	OptiCool
Electronics protection rating / connection area (as per IEC 60529)	IP65 / IP65	IP65 / IP65	IP65 / IP65
Climatic category (per IEC 60721-3-4)	4K4H	4K4H	4K4H
Features			
DC connection: SUNCLIX	●	●	●
AC connection: screw terminal / spring-type terminal	●/–	●/–	●/–
Display: text line / graphic	●/–	●/–	●/–
Interfaces: RS485 / Bluetooth®	○/○	○/○	○/○
Warranty: 5 / 10 / 15 / 20 / 25 years	●/○/○/○/○	●/○/○/○/○	●/○/○/○/○
Certificates and permits (more available on request)	CE, VDE 0126-1-1, DK 5940*, RD 1663, PPC, AS4777, EN 50438**, C10/C11, PPDS, IEEE 929		
* Only applies to IT variants, ** Does not apply to all national deviations of EN 50438			
● Standard features ○ Optional features – not available			
Data at nominal conditions			
Type designation	SMC 9000TL-10	SMC 10000TL-10	SMC 11000TL-10



Accessories



RS485 interface of type
485PB-NR



Bluetooth® Piggy Back
BTBINV-NR



SMA Power Balancer
Y cable PBL-YCABLE-10