

Efficient

- > Maximum efficiency of 98 %
- > The best tracking efficiency with OptiTrac MPP tracking
- > OptiCool active temperature management
- > Transformerless, with H5 topology
- > Monitored string fuses

Safe

- > SMA Power Balancer for three-phase grid connection
- > Integrated ESS DC load disconnecting unit



SUNNY MINI CENTRAL

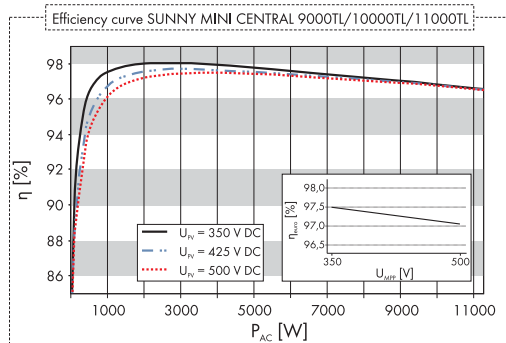
Precise system design for maximum yields

It has never been so easy to precisely plan mid-size and large solar plants. The Sunny Mini Central inverters from power classes nine to eleven kWp open up almost limitless possibilities in this respect. Whether dealing with mid-sized PV systems, 30 kW plants, or solar parks in the megawatt range: the devices fit perfectly into each and every plant concept of 27 kWp and above. Here, the combination of high efficiency and low specific price results in a short amortization time. In addition, the decentralized plant layout 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 / 10000TL / 11000TL

	SMC 9000TL-10	SMC 10000TL-10	SMC 11000TL-10
Input (DC)			
Max. DC power	9300 W	10350 W	11400 W
Max. DC voltage	700 V	700 V	700 V
PV-voltage range, MPPT	333 V - 500 V	333 V - 500 V	333 V - 500 V
Max. input current	28 A	31 A	34 A
Number of MPP trackers	1	1	1
Max. number of strings (parallel)	5	5	5
Output (AC)			
Nominal AC power / max. AC power	9000 W / 9000 W	10000 W / 10000 W	11000 W / 11000 W
Max. output current	40 A	44 A	48 A
Nominal AC voltage / range	220 V - 240 V / 180 V - 260 V	220 V - 240 V / 180 V - 260 V	220 V - 240 V / 180 V - 260 V
AC grid frequency (self-adjusting) / range	50 Hz / 60 Hz / ± 4.5 Hz	50 Hz / 60 Hz / ± 4.5 Hz	50 Hz / 60 Hz / ± 4.5 Hz
Phase shift (cos φ)	1	1	1
AC connection / power balancing	single-phase / ●	single-phase / ●	single-phase / ●
Efficiency			
Max. efficiency / Euro-Eta	98.0 % / 97.6 %	98.0 % / 97.5 %	98.0 % / 97.5 %
Protection devices			
DC reverse polarity protection	●	●	●
ESS DC load-disconnecting switch	●	●	●
AC short-circuit protection	●	●	●
Ground fault monitoring	●	●	●
Monitored string fuses	○	○	○
Grid monitoring (SMA Grid Guard)	●	●	●
All-pole sensitive residual-current monitoring unit	●	●	●
General Data			
Dimensions (W / H / D) in mm	468 / 613 / 242	468 / 613 / 242	468 / 613 / 242
Weight	approx. 35 kg	approx. 35 kg	approx. 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)
Consumption: operating (standby) / night	< 8 W / 0.15 W	< 8 W / 0.15 W	< 8 W / 0.15 W
Topology	transformerless	transformerless	transformerless
Cooling concept	OptiCool	OptiCool	OptiCool
Installation: Indoors / Outdoors (IP65 electronics)	●/●	●/●	●/●
Features			
DC connection: MC3 / MC4 / Tyco	○/●/○	○/●/○	○/●/○
AC connection: screw terminal	●	●	●
LCD	●	●	●
Interfaces: Bluetooth® / RS485	○/○	○/○	○/○
Warranty: 5 years / 10 years	●/○	●/○	●/○
Certificates and approvals	www.SMA.de	www.SMA.de	www.SMA.de
● Standard ○ Optional	Data at nominal conditions - Last update: March 2009		



Accessories



RS485 interface of type 485PB-NR



Bluetooth Piggy-Back



SMA Power Balancer Y Cable PBL-YCABLE-10