

- > Efficiency over 98 %
- > The best MPP efficiency with OptiTrac
- > Highly efficient ventilation system OptiCool
- > Transformerless
- > Integrated DC load-disconnecting unit ESS
- > Worldwide SMA service and SMA Serviceline
- > For outdoor and indoor installation
- > Can be easily combined with SMC 6000TL, 7000TL and 8000TL



SUNNY MINI CENTRAL

Delivers shortest payback time

The Sunny Mini Central 9000TL, 10000TL and 11000TL extend SMA's reference class for high power inverters. The Sunny Mini Central family now offers a wide range of devices ranging from 6 to 11 kW all equipped with the proven advanced technologies such as H5 topology and the electronic DC load-disconnecting unit ESS. The excellent efficiency of over 98 %, the OptiTrac MPP tracking and the OptiCool technology have made it possible to use this power range in a compact aluminum housing. The innovative Power Balancer for balancing the feed-in power on the different phases makes the Sunny Mini Central the ideal inverter for large-scale photovoltaic power stations starting from approximately 20 kW up to several hundred kilowatts of power. Excellent efficiency, lowest specific price and an installation right next to the solar generator – an unbeatable combination that pays with each and every beam of sunlight.

Technical Data

Sunny Mini Central 9000TL / 10000TL / 11000TL

	SMC 9000TL	SMC 10000TL	SMC 11000TL
Input (DC)			
Max. DC input 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	29 A	32 A	35 A
Number of MPPT trackers	1	1	1
Max. number of strings (parallel)	5	5	5
Output (AC)			
Nominal AC output power	9000 W	10000 W	11000 W
Max. AC output power	9000 W	10000 W	11000 W
Max. AC output current	40 A	44 A	48 A
Nominal AC voltage / range	220V - 240V / 180V - 260V	220V - 240V / 180V - 260V	220V - 240V / 180V - 260V
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
Power factor (cos ϕ)	1	1	1
AC connection / power balancing	single-phase / ●	single-phase / ●	single-phase / ●
Efficiency			
Max. efficiency	98.1 %	98.1 %	98.1 %
Euro ETA	97.7 %	97.7 %	97.7 %
Protective equipment			
DC reverse polarity protection	●	●	●
DC load-disconnecting unit ESS	●	●	●
AC short-circuit protection	●	●	●
Ground fault monitoring	●	●	●
Monitored string fuses	○	○	○
Grid monitoring (SMA grid guard)	●	●	●
Integrated all-pole sensitive RCD	●	●	●
General data			
Dimensions (W/H/D) in mm	468 / 613 / 242	468 / 613 / 242	468 / 613 / 242
Weight	approx. 40 kg	approx. 40 kg	approx. 40 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Operating consumption: operating (standby) / night	< 10 W / 0.25 W	< 10 W / 0.25 W	< 10 W / 0.25 W
Topology	transformerless	transformerless	transformerless
Cooling concept	OptiCool	OptiCool	OptiCool
Installation location: indoor / outdoor (IP 65 electronics)	●/●	●/●	●/●
Features			
DC connection: MC3 / MC4 / Tyco	○/●/○	○/●/○	○/●/○
AC connection: screw terminal	●	●	●
LCD display	●	●	●
Interfaces: RS232 / RS485 / radio	○/○/○	○/○/○	○/○/○
Warranty: 5 years / 10 years	●/○	●/○	●/○
Certificates and approvals	www.SMA.de	www.SMA.de	www.SMA.de

● Standard ○ Optional

Values apply for nominal conditions (preliminary information, dated July 2007)

