

Sunny Mini Central

SMC 6000TL, SMC 7000TL and SMC 8000TL



Record breaking efficiency
with over 98 %

Lowest specific price

Short return on investment

OptiCool®:
Maximum power up to an
ambient temperature of 40 °C
due to dual compartment
cooling system

SMA grid guard® 2:
Automatic disconnection

Electronic Solar Switch ESS:
Integrated DC circuit breaker
(optional)

For three phase systems

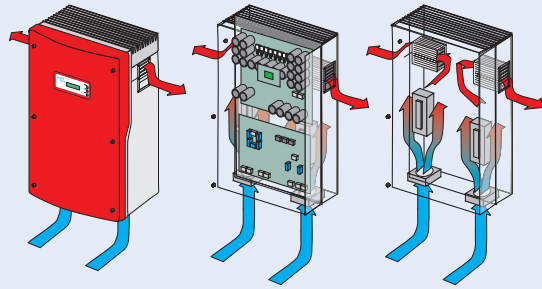
5 year SMA Warranty

The Sunny Mini Central family gives you even more: Over 98 % efficiency and the most attractive specific price result in the shortest return on invest time for solar inverters.

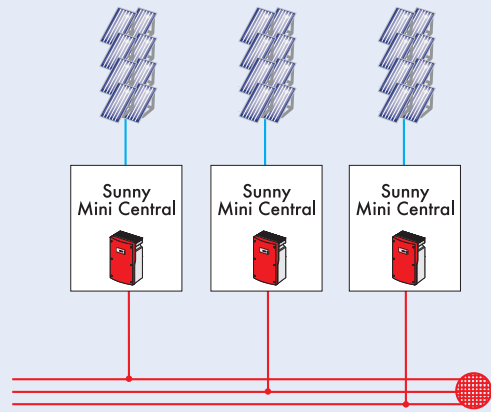
Different power classes with 8, 7 and 6 kW as well as the possibility of combinations of the different family members result in a simple design process for your system. And the Sunny Mini Central inverters are naturally equipped with all features from the market leader.

See for yourself, the technical data on the other page will convince you!

More Informations:
www.SMA.de/en/SMC8000TL



OptiCool®: Dual compartment cooling system for full power up to an ambient temperature of 40 °C



Connection example of the Sunny Mini Central (Three phase connection)

Technical Data

Input Values

Max. DC Power
DC Voltage Range
Nominal Voltage ($U_{PV, nom}$)
Max. MPP Voltage ($U_{MPP, max}$)
Max. DC Voltage ($U_{DC, max}$)
Max. Input Current ($I_{PV, max}$)
DC Voltage Ripple (U_{pp})
Max. Number of Strings (Parallel)

DC Connection
Thermally Monitored Varistors
Ground Fault Current Monitoring
Pole Confusion Protection

Output Values

AC Power, Continuous ($P_{AC, max}$)
AC Power, Nominal ($P_{AC, nom}$)
Max. Output Current ($I_{AC, max}$)
THD of AC Current
Nominal AC Voltage ($U_{AC, nom}$)
Nominal AC Frequency ($f_{AC, nom}$)
Power Factor ($\cos \phi$)

Short Circuit Proof
Grid Connection

Efficiency

Max. Efficiency (η_{max})
European Weighted Efficiency (η_{euro})

Power Circuit

Topology
Utility Monitoring (DIN VDE 0126-1-1)
Number of Output Phases

Enclosure

acc. to DIN EN 60529
Cooling System
Permissible Ambient Temperature

Mechanical Data

Weight
Width / Height / Depth (mm)

Features

Communication
Display
Warranty
DC Disconnect
Plant Monitoring

SMC 6000TL

6200 W
335 V – 700 V
350 V
500 V
700 V
19 A
< 10 %
4
Plug connector (MC or Tyco)
yes
yes
short circuit diode
6000 W at 40 °C
6000 W
27 A
< 4 %
220 V – 240 V
50 Hz
1
yes, current control
AC screw terminal
98 %
97.7 %
H5®bridge (transformerless)
SMA grid guard® 2
1
IP65 (dust- and waterproof)
OptiCool®
–25 °C to +60 °C
31 kg
468 / 613 / 242
Optional: RS232/RS485/radio
Standard: 2-line display
5 years (optional 10 years)
Optional: ESS
Compatible e.g. with Sunny Boy
Control, Sunny Beam, Sunny WebBox
and Sunny Portal

SMC 7000TL

7200 W
335 V – 700 V
350 V
500 V
700 V
22 A
< 10 %
4
Plug connector (MC or Tyco)
yes
yes
short circuit diode
7000 W at 40 °C
7000 W
31 A
< 4 %
220 V – 240 V
50 Hz
1
yes, current control
AC screw terminal
98 %
97.7 %
H5®bridge (transformerless)
SMA grid guard® 2
1
IP65 (dust- and waterproof)
OptiCool®
–25 °C to +60 °C
32 kg
468 / 613 / 242
Optional: RS232/RS485/radio
Standard: 2-line display
5 years (optional 10 years)
Optional: ESS
Compatible e.g. with Sunny Boy
Control, Sunny Beam, Sunny WebBox
and Sunny Portal

SMC 8000TL

8250 W
335 V – 700 V
350 V
500 V
700 V
25 A
< 10 %
4
Plug connector (MC or Tyco)
yes
yes
short circuit diode
8000 W at 40 °C
8000 W
35 A
< 4 %
220 V – 240 V
50 Hz
1
yes, current control
AC screw terminal
98 %
97.7 %
H5®bridge (transformerless)
SMA grid guard® 2
1
IP65 (dust- and waterproof)
OptiCool®
–25 °C to +60 °C
33 kg
468 / 613 / 242
Optional: RS232/RS485/radio
Standard: 2-line display
5 years (optional 10 years)
Optional: ESS
Compatible e.g. with Sunny Boy
Control, Sunny Beam, Sunny WebBox
and Sunny Portal