

Sunny Mini Central

SMC 5000A and SMC 6000A



Best efficiency for transformer inverters: 96.1 %

Best price-performance ratio of its class

OptiCool®:
Maximum power up to an ambient temperature of 50 °C due to dual compartment cooling system

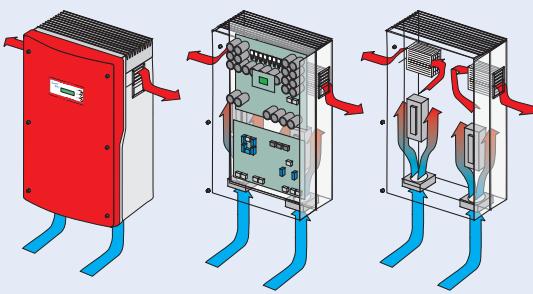
SMA grid guard® 2:
Automatic disconnection

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

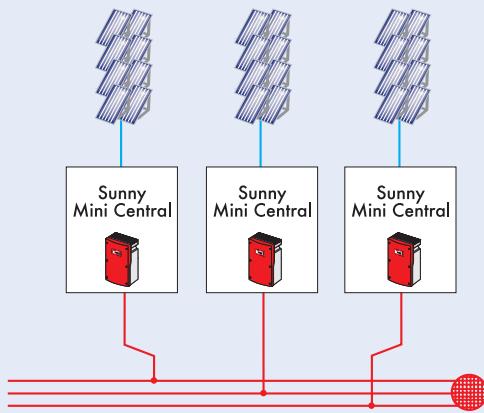
Automatic 50 Hz / 60 Hz detection

5 years SMA Warranty

The Sunny Mini Central shows that large plants do not necessarily need to be installed with large inverters. The OptiCool® cooling system and the new dual chamber enclosure result in an outstanding temperature management as well as a perfect protection of the electronics. The maximum efficiency of 96.1 % is record breaking for transformer based inverters and results in highest yields and minimal investment costs.



OptiCool®: Dual compartment cooling system for full power up to an ambient temperature of 50 °C



Connection example of the Sunny Mini Central (three-phase connection)

Technical Data

Input Values
Max. DC Power
DC Voltage Range
Nominal AC Voltage ($U_{AC,nom}$)
Max. MPP Voltage ($U_{MPP,max}$)
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
Number of Output Phases
Enclosure
acc. to DIN EN 60529
Cooling System
Permissible Ambient Temperature
Mechanical Data
Weight
Width / Height / Depth in mm
Features
Communication
Display
Warranty
DC Disconnect
Plant Monitoring

SMC 5000A	SMC 6000A
5750 W	6300 W
213 V – 600 V	213 V – 600 V
246 V	246 V
600 V	600 V
26 A	26 A
< 10 %	< 10 %
4	4
Plug connector (MC or Tyco)	Plug connector (MC or Tyco)
yes	yes
yes	yes
Short circuit diode	Short circuit diode
5500 W at 50 °C	6000 W at 50 °C
5000 W	6000 W
26 A	26 A
< 4 %	< 4 %
220 V – 240 V	220 V – 240 V
50 Hz / 60 Hz	50 Hz / 60 Hz
1	1
yes, current control	yes, current control
Screw-Terminal	Screw-Terminal
96.1 %	96.1 %
95.2 %	95.2 %
Low frequency transformer	Low frequency transformer
SMA grid guard® 2	SMA grid guard® 2
1	1
IP65 (dust- and waterproof)	IP65 (dust- and waterproof)
OptiCool®	OptiCool®
-25 °C to +60 °C	-25 °C to +60 °C
approx. 62 kg	approx. 63 kg
468 / 613 / 242	468 / 613 / 242
Optional: RS232/RS485/radio	Optional: RS232/RS485/radio
Standard: 2-line display	Standard: 2-line display
5 years (optional 10 years)	5 years (optional 10 years)
Optional: ESS	Optional: ESS
Compatible e.g. with Sunny Boy Control, Sunny Beam, Sunny WebBox and Sunny Portal	Compatible e.g. with Sunny Boy Control, Sunny Beam, Sunny WebBox and Sunny Portal