

SUNNY MINI CENTRAL

SMC 6000TL / SMC 7000TL / SMC 8000TL

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.

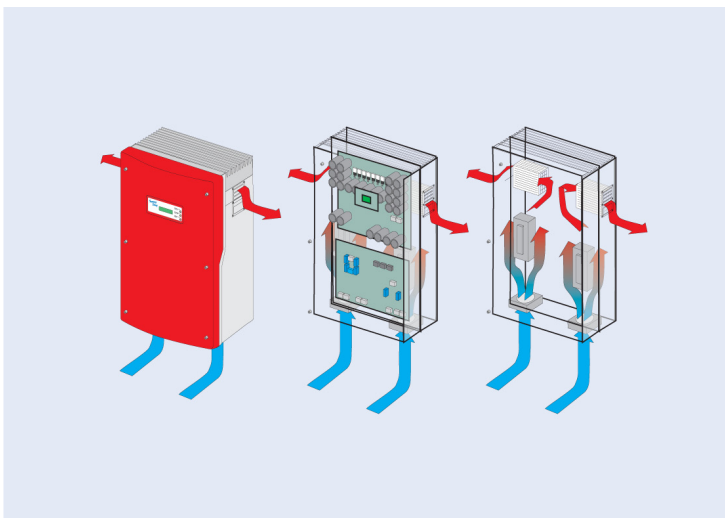
Different power classes with 8, 7 and 6 kW as well as the possibility of combinations of the different family members result in a simple design process for your system. And the Sunny Mini Central inverters are naturally equipped with all features from the market leader.

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

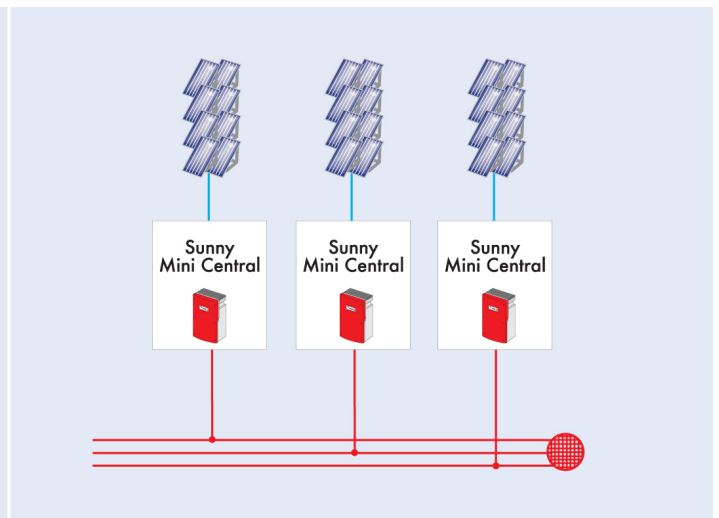


FEATURES

- » 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
- » **SMA grid guard ® 2:**
Automatic disconnection unit
- » **Electronic Solar Switch ESS ® :**
Integrated DC circuit breaker (optional)
- » For three phase systems
- » 5 year SMA Warranty



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



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

TECHINCAL DATA

	SMC 6000TL	SMC 7000TL	SMC 8000TL
Input (DC)			
Max. DC power	6200 W	7200 W	8250 W
Recc. max. PV Power	6900 W P *)	8000 W P *)	9200 W P *)
DC Voltage Range	335 V – 700 V	337 V – 700 V	335 V – 700 V
Nominal Voltage (U PV, nom)	350 V	350 V	350 V
Max. MPP Voltage (U MPP,max)	700 V	700 V	700 V
Max. Input Current (I PV,max)	19 A	22A	25A
DC Voltage Ripple (U PP)	< 10 %	< 10 %	< 10 %
Max. Number of Strings (Parallel)	4	4	4
DC Disconnection	Plug connector (MC or Tyco)	Plug connector (MC or Tyco)	Plug connector (MC or Tyco)
Thermally Monitored Varistors	yes	yes	yes
Ground Fault Current Monitoring	yes	yes	yes
Pole Confusion Protection	short circuit diode	short circuit diode	short circuit diode
Output (AC)			
AC Power, Continuous (P AC,max)	6000 W at 40°C	7000 W at 40°C	8000 W at 40°C
AC Power, Nominal (P AC,nom)	600W	7000W	8000 W
Max. Output Current (I AC,max)	27 A	31A	35A
THD of AC Current	< 4 %	< 4 %	< 4 %
Nominal AC Voltage (U AC,nom)	220 V – 240 V	220 V – 240 V	220 V – 240 V
Nominal AC Frequency (f AC,nom)	50 Hz / 60 Hz **)	50 Hz / 60 Hz **)	50 Hz / 60 Hz **)
Power Factor (cos phi)	1	1	1
Short Circuit Proof	yes, current control	yes, current control	yes, current control
Grid Connection	AC screw terminal	AC screw terminal	AC screw terminal
Efficiency			
Max. efficiency	98.0 %	98.0 %	98.0 %
European Weighted Efficiency (eta euro)	97,7 %	97,7 %	97,7 %
Power Circuit			
Topology	H5 @ bridge (transformerless)	H5 @ bridge (transformerless)	H5 @ bridge (transformerless)
Utility Monitoring	SMA grid guard @ 2	SMA grid guard @ 2	SMA grid guard @ 2
Number of Output Phases	1	1	1
Enclosure			
acc. to DIN EN 60529	IP65 (dust- and waterproof)	IP65 (dust- and waterproof)	IP65 (dust- and waterproof)
Cooling System	OptiCool @	OptiCool @	OptiCool @
Permissible Ambient Temperature	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Mechanical Data			
Dimensions (W / H / D) in mm	468 / 613 / 242	468 / 613 / 242	468 / 613 / 242
Weight	approx. 31 kg	approx. 32 kg	approx. 33 kg
Features			
Communication	Optional: RS232/RS485/radio	Optional: RS232/RS485/radio	Optional: RS232/RS485/radio
Warranty	5 years (optional 10 years)	5 years (optional 10 years)	5 years (optional 10 years)
DC Disconnect	Optional: ESS @	Optional: ESS @	Optional: ESS @
Display	Standard: 2-line display	Standard: 2-line display	Standard: 2-line display