



The Sunny Mini Central range was designed to show that high system outputs do not necessarily require large central inverters.

The SMC 5000 & 6000 inverters have proven themselves in numerous systems with nominal power outputs of up to several hundred kW. The more highly developed versions, 5000A & 6000A offer two further advantages: improved efficiency and better thermal behavioral characteristics. The chosen power class, as well as the outstandingly high efficiency for an inverter with a transformer, offers the highest degree of flexibility in system design, and simultaneously ensures a very high energy yield.

The aluminium die-cast enclosure, which is suitable for outdoor usage, enables installation in close proximity to the generator, and the active cooling system OptiCool results in the fact that the Sunny Mini Central is particularly appropriate for installation in the southern hemisphere. The setup of smaller units also enables detailed monitoring of individual sections in large systems.

Features

- | Best efficiency for an inverter with a transformer: 96.1%
- | OptiCool: maximum output in ambient temperatures of up to 50 °C due to dual-chamber cooling system
- | Indoor & outdoor installation
- | Galvanic isolation
- | Extended temperature range -25 °C to +60 °C
- | SMA grid guard: Automatic disconnection unit
- | Electronic Solar Switch ESS: Integrated DC circuit breaker (optional)
- | Diagnostics & communication via network, radio & cable (RS232 or RS485)
- | 5 year SMA warranty (10 years optional)



	SMC5000A	SMC6000A	SMC5000A	SMC6000A
Input				
Max DC power ($P_{DC, max}$)	5,750 W	6,300 W		
Max DC voltage ($U_{DC, max}$)		600 V		
PV voltage range, MPPT ($U_{PV, max}$)		246-600 V		
Max input current ($I_{PV, max}$)		26 A		
DC voltage ripple (U_{pp})		< 10%		
Max number of strings (parallel)		4		
DC connections		MC III		
Thermally monitored varistors		Yes		
Ground fault monitoring		Yes		
Pole confusion protection		Short circuit diode		
Output				
Max AC power ($P_{AC, max}$)	5,500 W	6,000 W		
Nominal AC power ($P_{AC, nom}$)	5,000 W	6,000 W		
THD of grid current		< 4%		
Default AC voltage ($U_{AC, nom}$)		220 - 240 V		
AC frequency (F_{AC})		50 / 60 Hz		
Power factor (cos phi)				1
Short circuit proof				Yes, current regulation
Connection to utility				AC terminal
Efficiency				
Max efficiency			96.1%	96.1%
Euro-efficiency			95.2%	95.2
Enclosure				
accord. to DIN EN 60529				IP65
Mechanical data				
Dimensions (w x h x d)				468 x 613 x 242 mm
Weight			62 kg	63 kg

Available from: