

Sunny Mini Central 5000A / 6000A

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 behavioural characteristics. The chosen power class, as well as the outstandingly high efficiency for an inverter with a transformer, offers the highest degree of accessibility 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)

	Mini Central 5000	Mini Central 6000		Mini Central 5000	Mini Central 6000
Input			Power factor (cos phi)	1	1
Max DC power (PDC, max)	5,750 W	6,300 W	Short circuit proof	Yes, current regulation	
Max DC voltage (UDC, max)	600 V	600 V	Connection to utility	AC terminal	AC terminal
PV voltage range, MPPT (UPV, max)	246-600 V	246-600 V	Efficiency		
Max input current (I PV, max)	26 A	26 A	Max efficiency	96.1%	96.1%
DC voltage ripple (Upp)	< 10%	< 10%	Euro-efficiency	95.2%	95.2%
Max number of strings (parallel)	4	4	Enclosure		
DC connections	MC III	MC III	accord. to DIN EN 60529	IP65	IP65
Thermally monitored varistors	Yes	Yes	Mechanical data		
Ground fault monitoring	Yes	Yes	Dimensions (w x h x d)	468 x 613 x 242 mm	
Pole confusion protection	Short circuit diode	Short circuit diode	Weight	62 kg	63 kg
Output					
Max AC power (PAC, max)	5,500 W	6,000 W			
Nominal AC power (PAC, nom)	5,000 W	6,000 W			
THD of grid current	< 4%				
Default AC voltage (UAC, nom)	220 - 240 V				
AC frequency (FAC)	50 / 60 Hz				