

Inverter SUN3Grid® 4000/5000/6000

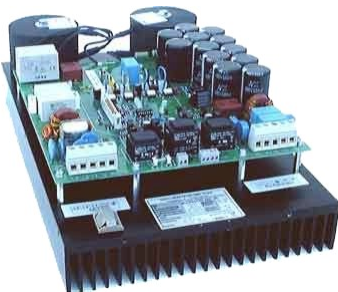
The **SUN3Grid® 4000/5000/6000** inverters set a new standard in the area of photovoltaic inverters.

Especially with medium-sized installations of up to 100 kWp, using our **SUN3Grid®** inverter a very high efficiency of nearly 96% per year can be achieved.

Thanks to the **SUN3Grid®** inverter cut-off at night (0 Watt) the installation of a second supply meter and it's additional costs are unnecessary. An optimisation of the supply power can already be reached with partial load because of that high efficiency.

Since the regulation based safety and control functions required for the operation are already integrated, the installation effort could be reduced to a great extent.

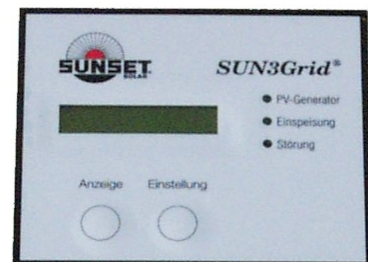
- Discharger for AC and DC side
- 3-Phasen mains monitoring
- Temperature control
- EMV-Filter zum Schutz vor Netzstörungen



The transformer-free conception of the **SUN3Grid®** inverter enables a soundless operation. A back plate for an easy wall installation of the **SUN3Grid®** inverter is included in the scope of supply.

All inverters of the **SUN3Grid®** series are **ex-works equipped with a display** for showing the operational data and conditions. The following data can be obtained:

- Mains voltage
- AC mains power
- Dispatched energy
- Day dispatched energy
- Temperature
- Hours of operation
- Hours of operation complete
- Date and time
- Yield aktuell
- Annual yield
- Aggregate yield
- Hours of operation daily
- Hours of operation yearly



Via an interface, standard fitted at the manufacturer's, the display data can be transferred to a connected PC.

All devices and equipment have a **6-year-warranty* ex works**.

*see terms of the guarantee

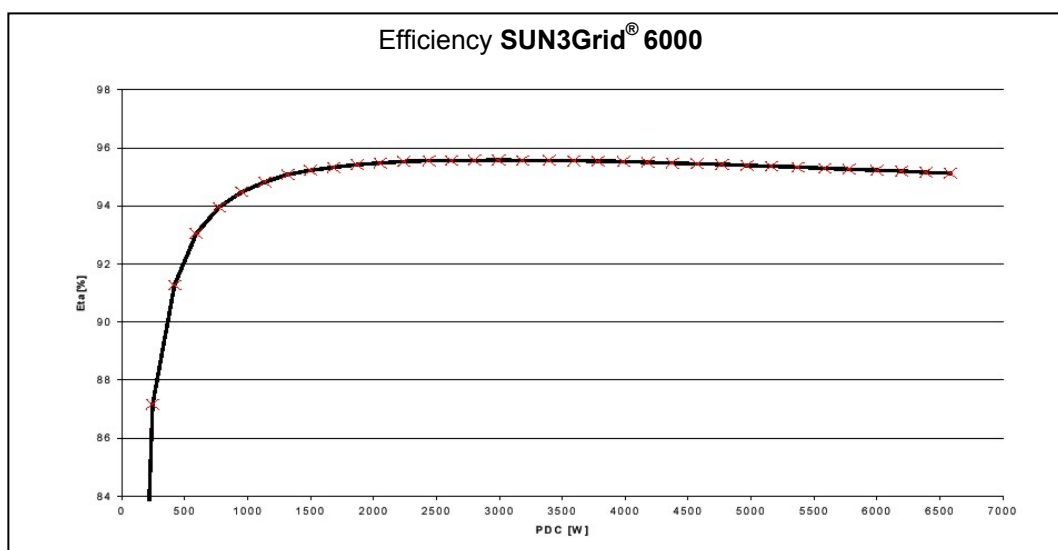


Technical data sheet SUN3Grid® 4000/5000/6000

DC	4000	5000	6000
Rated power	4000 Watt	5000 Watt	6000 Watt
Max. no of strings	2	2	2
MPP voltage min.	340 Volt	340 Volt	340 Volt
MPP voltage max.	600 Volt	600 Volt	600 Volt
Max. allowed voltage	800 Volt	800 Volt	800 Volt
Max. current	11.5	14.5 A	18 A
Recommended cross section	≥ 4 mm ²	≥ 4 mm ²	≥ 4 mm ²
Daytime power demand	≤ 11 Watt	≤ 11 Watt	≤ 11 Watt
Night-time power demand	0 Watt	0 Watt	0 Watt
AC			
Rated power	3450 Watt	4400 Watt	5500 Watt
Max. power	3800 Watt	4800 Watt	6000 Watt
Rated voltage	190-254 Volt	195 – 254 Volt	195 – 253 Volt
Grid frequency	50 Hz	50 Hz	50 Hz
Max. current	16.5 A	20.9 A	26 A
Noise factor	≤ 3 %	≤ 3 %	≤ 3 %
EMV	EG directive 89/336/EWG		
Monitoring	3 ph. Voltage monitoring VDEW		
Max. efficiency	95.7 %	96.3 %	96.3 %
European efficiency	94.8 %	94.4 %	94.5 %
Mechanic			
Dimensions W x L x H mm	355/585/235	355/585/235	355/585/235
Weight	21 kg	24 kg	28 kg
Protection class	IP 21	IP 21	IP 21

Specific feature

Display	in scope of delivery
Interface RS232	in scope of delivery
Interface RS485	optional
Warranty 6 years	in scope of delivery
Warranty 10 years	optional



Grid-connected inverter SUNstring® 4000/5000



The **SUNstring® 4000/5000** inverter set high standards for grid-connected PV inverters.

Especially with medium-sized installations of up to 100 kWp, using our **SUNstring®** inverter a very high efficiency of nearly 96% per year can be achieved.

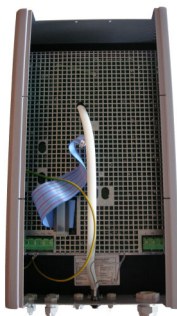
Thanks to the **SUNstring®** inverter the installation of a second supply meter and its additional costs are unnecessary.

Since the regulation based safety and control functions required for the operation are already integrated, the installation effort could be reduced to a great extent.

- Discharger for AC and DC side
- new grid control BiSI
- temperature control
- EMV-Filter

The transformer-free conception of the **SUNstring®** inverter enables a soundless operation. A back plate for an easy wall installation of the **SUNstring®** inverter is included in the scope of supply.

All inverters of the **SUNstring®** series are **ex-works equipped with a display** for showing the operational data and conditions. The following data can be obtained



- Mains voltage
- AC mains power
- dispatched energy
- day-dispatched energy
- temperature
- operating status
- date and time
- hours of operation complete
- actual yield
- annual yield
- aggregate yield
- hours of operation daily
- hours of operation yearly

Via an interface, standard fitted at the manufacturer`s, the display data can be transferred to a connected PC. All devices and equipment have a **6-year-warranty* ex works**.

*see terms of the guarantee

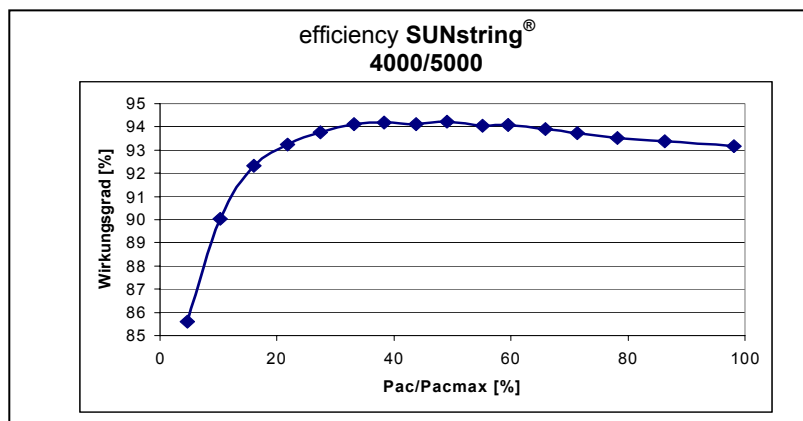
Technical data sheet SUNstring® 4000/5000

DC	4000	5000
Connection terminals	2	2
Min. DC voltage	125 Volt	125 Volt
Max. DC voltage	400 Volt	400 Volt
Max. allowed voltage	500 Volt	500 Volt
Max. current	30 A	43 A
Recommend cable gauge	≥ 4 mm ²	≥ 4 mm ²
Day-time power demand	≤ 5 Watt	≤ 5 Watt
Night-time power demand	0 Watt	0 Watt

AC		
Rated power	3450 Watt	4600 Watt
Max. power	3800 Watt	5060 Watt
Rated voltage	190 – 264 Volt	190 – 264 Volt
Grid frequency	50 Hz	50 Hz
Max. current	16.5 A	22 A
Noise factor	≤ 3 %	≤ 3 %
EMV	EG directive 89/336/EWG	
Monitoring	BiSI gemäß E DIN VDE 0126-1-1, VDEW konform	
Max. efficiency	94.5 %	94.5 %
European efficiency	93.3 %	93.3 %

Mechanic		
Dimensions B x H x T mm	355/585/235	355/585/235
Weight	19 kg	28 kg
Protection class	IP 21	IP 21

Specific feature	
Display	in scope of delivery
Interface RS232	in scope of delivery
Interface RS485	optional
Warranty 6 years	in scope of delivery
Warranty 10 years	optional



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