

SUNSET SUN3Grid® 3000/4000/5000/6000/8000-02

The SUN3Grid® 3000/4000/5000/6000/8000-02 inverters set a new standard in the area of photovoltaic inverters. Due to the high efficiency of almost 97% the utilization of our SUN3Grid® inverters ensure superior annual yields, especially when implemented in systems of up to 100 kWp. Due to the high inverter efficiency the solar power system will provide power even in partial load operation conditions. 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.



SUN3grid® -02 at a glance

- Wide MPP range of 350 V to 600 V
- Integrated potential-free fault signal
- Redundant 3-phase monitoring in accordance with VDE 0126-1-1 :2006-02
- Protection class IP54 (optional)
- Easy installation due to mounting plate and housing doors
- LCD as standard
- 7 year guarantee as standard

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Technical Data

Input - Electrical data

Model	3000	4000	5000	6000	8000
MPP range	350 ... 600 V				
No-load voltage	800 V				
Max. input current	9.1 A	12.0 A	15.2 A	18.0 A	21.4 A
Number of strings	3			4	
Polarity safeguard	Short-circuit diode				
Number of MPP controls	1				

Output - Electrical data

Rated power	3000 W	4000 W	4600 W	6000 W	8000 W
Maximum power	3000 W	4000W	5060 W	6000 W	8000 W
Grid voltage	190V...264V				
Rated current	13.0 A	17.4 A	22.0 A	26.0 A	35.0 A
Number of feed-in phases	1				
cos phi	≈ 1				
Rated frequency	50 Hz				

Inverter – Electrical data

Max. efficiency	96.4 %	96.4 %	96.3 %	96.3%	97%
European efficiency	95.8 %	95.8 %	95.3 %	95.3%	96.5%
Internal consumption	Night shutdown: 0W				
Circuit design	Self-commutated, transformerless				
Grid monitoring	Redundant 3-phase monitoring according to VDE0126-1-1				

Inverter - Mechanical and technical data

Display	LCD 2 x 16 characters				
Controls	2 buttons for operating display				
Interfaces	RS232/RS485, SO, Sym-Bus				
Fault signal relay	Potential-free NO contact		max. 30V / 3A 250V / 1A		
Connections	PCB terminals inside the unit (max. cross section: 10mm ²), cable connection through cable fittings (DC fitting M16, AC fitting M32)				
Ambient temperature	-20°C...+60°C*				
Temperature monitoring of the heat sink	> 75°C temperature-dependent impedance matching/ > 85°C switch-off				
Cooling	Free convection (no fan)				
Protection rating	IP 21 (optional IP 54)			IP 54	
Noise emission	< 35 dB (A) (noiseless)				
Housing	Aluminium				
H x W x D	352 x 235 x 555			340x220x810	
Weight	19 kg	21 kg	24 kg	28 kg	38 kg