

System Inverters

SOLARWATT System Inverter StecaGrid - 3-phase

new



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Certified acc. to DIN EN ISO 9001 und 14001 | BS OHSAS 18001:2007



Quality for versatile use

- Lightweight (10 kg), compact, no transformer
- Almost silent operation
- Simple menu-driven operation
- Housing Protection Rating IP21 (indoor use)
- Maintenance free
- 10 year warranty included*
- Optimum efficiency (up to 98.6 %)

*Special warranty conditions by Steca Elektronik GmbH for SOLARWATT system inverter StecaGrid



Scope of supply:

- Inverter
- 1 x AC plug set
- 1 x DC plug set (Sunclix)
- 1 x wall mount

- Flexible input voltage range
- Integrated network management and preparation of reactive power
- 3-phase symmetrical feeding
- Optimised shadow management using global MPP tracking

SOLARWATT Service



SOLARWATT Full Coverage
inclusive



Product-warranty
acc. to special warranty conditions by Steca Elektronik GmbH for SOLARWATT system inverter StecaGrid



Competent consulting
Experts via hotline or on location



Country of origin
Quality made in Germany

SOLARWATT Expert Installer

Technical Data SOLARWATT System Inverter

	StecaGrid 3203	StecaGrid 4003	StecaGrid 4803	StecaGrid 5503
DC input side (PV-generator)				
Maximum input voltage	1000 V			
Minimum input voltage for feeding in	250 V			
MPP voltage for rated output	300 - 800 V	375 - 800 V	450 - 800 V	510 - 800 V
Maximum input current	11 A			
Maximum input power at maximum active output power	3.300 W	4.100 W	4.920 W	5.620 W
Maximum recommended PV power	4.000 Wp	4.900 Wp	5.900 Wp	6.700 Wp
Number of DC inputs	1			
Number of MPP inputs	1			
AC output side (Grid connection)				
Grid voltage	320 V - 480 V			
Rated grid voltage	400 V			
Maximum output current	7 A		10 A	
Maximum active power (cos phi = 1)	3.200 W	4.000 W	4.800 W	5.500 W ¹⁾
Maximum active power (cos phi = 0.95)	3.040 W	3.800 W	4.560 W	5.225 W
Maximum active power (cos phi = 0.9)	2.880 W	3.600 W	4.320 W	4.950 W
Maximum apparent power (cos phi = 0.95)	3.200 VA	4.000 VA	4.800 VA	5.500 VA
Maximum apparent power (cos phi = 0.9)	3.200 VA	4.000 VA	4.800 VA	5.500 VA
Rated power	3.200 W	4.000 W	4.800 W	5.500 W
Rated frequency	50 Hz and 60 Hz			
Frequency	45 Hz - 65 Hz (depending on regional settings)			
Night-time power loss	< 3 W			
Feeding phases	single-phase			
Distortion factor (cos phi = 1)	< 1 %			
Power factor cos phi	0,95 capacitive - 0,95 inductive			
Characterisation of the operating performance				
Maximum efficiency	98,6 %		98,7 %	
European efficiency	97,9 %	98,1 %	98,2%	98,3 %
Californian efficiency	98,3 %	98,4 %	98,5 %	98,5 %
MPP efficiency	> 99,7 % (static), > 99 % (dynamic)			
Own consumption	< 8 W			
Power derating at full power	from 50 °C (T _{amb})			
Safety				
Isolation principle	no galvanic isolation, transformerless			
Grid monitoring	yes, integrated			
Residual current monitoring	yes, integrated ¹⁾			

¹⁾ The design of the inverter prevents it from causing DC leakage current.

Operating conditions	
Area of application	indoor rooms with or without air conditioning
Ambient temperature	-15°C ... +60°C
Storage temperature	-30°C ... +70°C
Relative humidity	0 % up to 95 % (non-condensating)
Noise emission (typical)	< 29 dBA
Fitting and construction	
Degree of protection	IP 21 (casing: IP 51; display: IP 21)
Overvoltage category	III (AC), II (DC)
DC-connector	Phoenix Contact Sunclix (1 pair)
AC output side connection	Wieland RST25i3 plug, mating connector included
Dimensions (X x Y x Z)	340 x 608 x 222 mm
Weight	10 kg
Communication interface	RS485; 2 x RJ45 sockets
Integrated DC circuit breaker	yes, compliant with VDE 0100-712
Cooling principle	Cooling principle temperature-controlled fan, variable speed
Test certificate	CE mark, VDE AR N 4105, ÖNORM E80001-4-712, others in preparation

