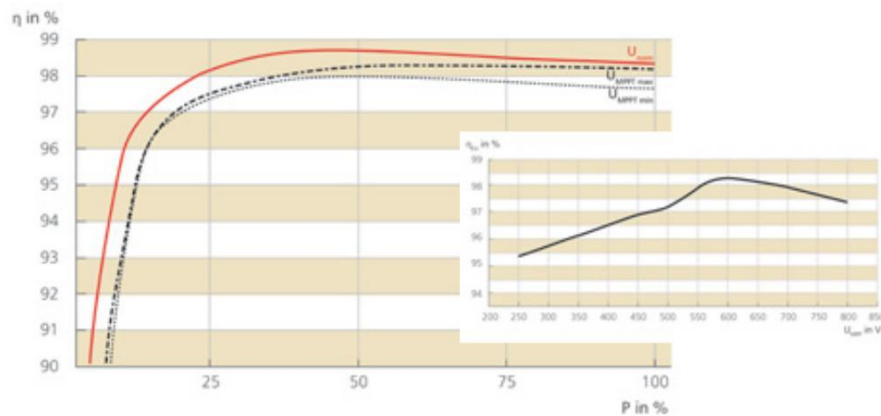


Quality for versatile use

SoLARWATT System Inverter StecaGrid 3-phase

- Lightweight (10 kg), compact, no transformer
- Free of maintenance
- Optimum efficiency (up to 98.6 %)
- Flexible input voltage range
- Integrated network management and preparation of reactive power
- 3-phase symmetrical feeding
- Optimised shadow management using global MPP tracking



Characteristic line for SOLARWATT StecaGrid 5003

SOLARWATT Service



SOLARWATT Full Coverage
valid in combination with the purchase of a SOLARWATT complete package (up to 1000 kWp*)



7 Product-warranty
according to „Special warranty conditions by Steca Elektronik GmbH for Solarwatt system inverter StecaGrid“



Country of origin
Quality made in Germany

* in Italy up to 50 kWp

Energy
Manage

Full
Coverage
ready



Scope of supply

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

Amar Solar Energy , M:
+40726753515, E:
office@amarsolarenergy.ro,
www.amarsolarenergy.ro

Technical Data | SOLARWATT System Inverter StecaGrid 3-phase

	SteccaGrid 3203	SteccaGrid 4003	SteccaGrid 5003	SteccaGrid 6003
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	470 - 800 V	560 - 800 V
Maximum input current	11 A			
Maximum input power at maximum active output power	3.300 W	4.100 W	5.110 W	6.130 W
Maximum recommended PV power	4.000 Wp	4.900 Wp	6.100 Wp	7.400 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	5.000 W	6.000 W ¹⁾
Maximum active power (cos phi = 0.95)	3.040 W	3.800 W	4.750 W	5.700 W
Maximum active power (cos phi = 0.9)	2.880 W	3.600 W	4.500 W	5.400 W
Maximum apparent power (cos phi = 0.95)	3.200 VA	4.000 VA	5.000 VA	6.000 VA
Maximum apparent power (cos phi = 0.9)	3.200 VA	4.000 VA	5.000 VA	6.000 VA
Rated power	3.200 W	4.000 W	5.000 W	6.000 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	three-phase			
Distortion factor (cos phi = 1)	< 1 %			
Power factor cos phi	0,8 capacitive - 0,8 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 %	
MPP efficiency	> 99,7 % (static), > 99 % (dynamic)			
Own consumption	< 8 W			
Power derating at full power	from 50 °C (T _{amb})		from 45 °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	3x RJ45 socket (2 x RS485/ 1 x Ethernet); 1 x RJ11
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

Dimensions

