SOLARWATT SYSTEM INVERTER

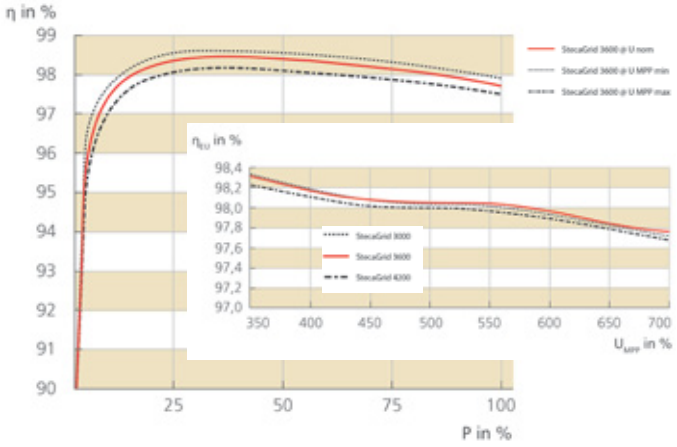
PRIVATE					
EASY-IN SYSTEM	EASY-ON SYSTEM	EASY-FLAT SYSTEM	CARPORT SYSTEM	VERANDA SYSTEM	FACADE SYSTEM
●	●	●	●	●	●

COMMERCIAL			
EASY-IN SYSTEM	EASY-ON SYSTEM	EASY-FLAT SYSTEM	FACADE SYSTEM
●	●	●	●

MADE IN GERMANY

QUALITY FOR VERSATILE USE

- Lightweight, compact, no transformer
- Housing Protection Rating IP21 (indoor use)
- Flexible input voltage range
- Maintenance free
- Integrated network management and preparation of reactive power
- MC4 DC connector system



SOLARWATT SERVICE

- Fast installation
- SOLARWATT Full Coverage included (available on purchasing a SOLARWATT system solution)

- 10-year warranty included*
- Optimum efficiency (up to 98.6 %)
- Almost silent operation

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

SOLARWATT-SPECIALIST INSTALLER

SOLARWATT Systemintelligenz

FULL COVERAGE READY

SOLARWATT Systemintelligenz

SOLARWATT System Inverter

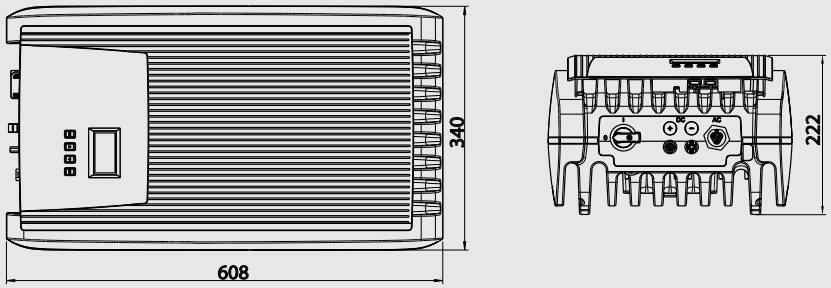
Tecnical Data

	StecaGrid 1800	StecaGrid 2300	StecaGrid 3010	StecaGrid 3000	StecaGrid 3600	StecaGrid 4200
DC input side (PV-generator)						
Maximum input voltage	600 V			845 V		
Minimum input voltage for feeding in	125 V			350 V		
MPP voltage for rated output	160 - 500 V	205 - 500 V	270 - 500 V	350 - 700 V		360 - 700 V
Maximum input current	11,5 A			12 A		
Maximum input power at maximum active output power	1.840 W	2.350 W	3.070 W	3.060 W	3.690 W	4.310 W
Maximum recommended PV power	2.200 Wp	2.900 Wp	3.800 Wp	3.800 Wp	4.500 Wp	5.200 Wp
Number of DC inputs	1					
Number of MPP inputs	1					
AC output side (Grid connection)						
Grid voltage	185 - 276 V (depending on regional settings)					
Rated grid voltage	230 V					
Maximum output current	12 A	14 A		16 A		18,5 A
Maximum active power (cos phi = 1)	1.800 W	2.300 W	3.000 W	3.000 W	3.600 W[1)]	4.200 W[1)]
Maximum active power (cos phi = 0.95)	1.800 W	2.300 W	3.000 W	3.000 W	3.530 W	3.990 W
Maximum apparent power (cos phi = 0.95)	1.900 VA	2.420 VA	3.160 VA	3.130 VA	3.680 VA	4.200 VA
Rated power	1.800 W	2.300 W	3.000 W	3.000 W	3.600 W[2)]	4.200 W[3)]
Rated frequency	50 Hz and 60 Hz					
Frequency	45 Hz - 65 Hz (depending on regional settings)					
Night-time power loss	< 1,2 W			< 0,7 W		
Feeding phases	single-phase					
Distortion factor (cos phi = 1)	< 2 %					
Power factor cos phi	0,95 capacitive - 0,95 inductive					
Characterisation of the operating performance						
Maximum efficiency	98 %			98,6 %		
European efficiency	97,4 %	97,6 %	97,7 %	98,3%	98,3 %	98,2 %
Californian efficiency	97,5 %	97,7 %	97,8 %	98,4 %	98,3 %	98,2 %
MPP efficiency	> 99,7 % (static), > 99 % (dynamic)					
Own consumption	< 4 W					
Power derating at full power	from 50 °C (T_{amb})	from 50 °C (T_{amb})	from 45 °C (T_{amb})	from 50 °C (T_{amb})	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[4)]					

[1)] Belgium: 3.330 W [2)] Portugal: 3.450 W [3)] Portugal: 3.680 W
[4)] The design of the inverter prevents it from causing DC leakage current.

	StecaGrid 1800	StecaGrid 2300	StecaGrid 3010	StecaGrid 3000	StecaGrid 3600	StecaGrid 4200
Operating conditions						
Area of application	indoor rooms with or without air conditioning					
Ambient temperature	-15 °C up to +60 °C					
Storage temperature	-30 °C up to +80 °C					
Relative humidity	0 % up to 95 % (non-condensating)					
Noise emission (typical)	23 dBA	25 dBA	29 dBA	26 dBA	29 dBA	31 dBA
Fitting and construction						
Degree of protection	IP 21 (casing: IP 51; display: IP 21)					
Overvoltage category	III (AC), II (DC)					
DC Input side connection	MultiContact MC4 (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	9,5 kg			9 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, G83, CEI 0-21 under preparation: UTE C 15-712-1			CE mark, VDE AR N 4105, G83, UTE C 15-712-1, AS4777, CEI 0-21		CE mark, VDE AR N 4105, G83, CEI 0-21

DIMENSIONS



[This data sheet fulfills the requirements listed in DIN EN 50380:2003; REV 01/2014]