



StecaGrid 3000 and StecaGrid 3600

Inverter topology

The new „Coolcept“ inverter topology, with an innovative circuit design that achieves highest efficiency, has now been integrated into the StecaGrid 3000 and StecaGrid 3600.

The „Coolcept“ inverter topology is based on a single-stage transformerless switching concept that uses proven standard components to implement symmetric step-down converters with downstream pole-reversing circuits.

Highest efficiency with longer service life

The high efficiency results in a peak efficiency of 98.6 % and a European efficiency of 98.2 % resp. 98.1 %, which results in less lost power that must be dissipated into the environment. This improves your yields.

The efficiencies of the StecaGrid 3000 and StecaGrid 3600 are only very slightly dependent on the module input voltage. This allows the number and type of modules to be freely selected without resulting in a yield loss.

In addition to this, a new and unique cooling concept inside the inverter ensures an even distribution of the dissipated heat and a long service life for the device.

Product design and visualisation

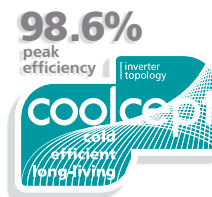
For the first time, the very high efficiency allows the use of a design housing made of plastic. This offers many advantages, for example in the installation. The overall surface temperature of the StecaGrid 3000 and 3600 remains very low. The inverters have protection class II.

The StecaGrid 3000 and StecaGrid 3600 have a graphical LCD display for visualising the energy yield values, current performance and operating parameters of the system. Its innovative menu allows individual selection of the various measurements.

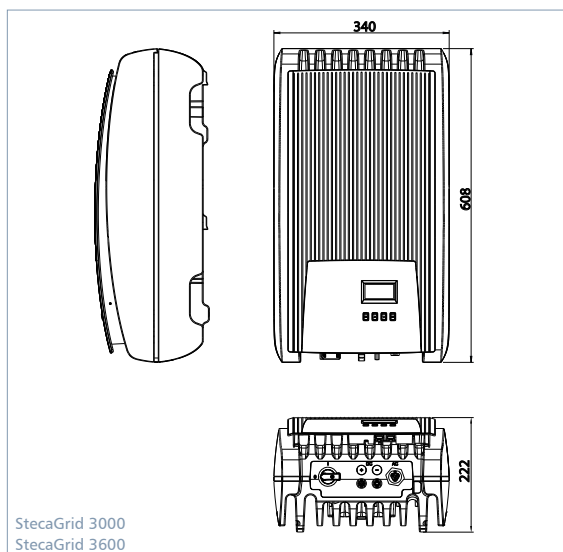
The guided, pre-programmed menu allows easy final commissioning of the device.

Installation

The lightweight StecaGrid 3000 and 3600 weigh only 9 kg and can be easily and safely mounted on a wall. The supplied wall bracket and practical recessed grips for right and left handed installers make mounting of the device simple and convenient. The device does not need to be opened for installation. All connections and the DC circuit breaker are externally accessible.



StecaGrid 3000
StecaGrid 3600



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Product features

- Highest efficiency
- Simple installation
- Integrated data logger
- Firmware update possible
- Low housing temperature at full load
- Functionally perfect, environmentally-friendly plastic housing
- Lowest possible own consumption
- Integrated DC circuit breaker
- Protective insulation according to protection class II
- Very long service life
- 7-year warranty

Displays

- Multifunction graphical LCD display with backlighting
- Animated representation of yield

Operation

- Simple menu-driven operation
- Multilingual menu navigation

Options

- System monitoring with Solar-Log™, WEB'log and StecaGrid Monitor data loggers
- Can be connected to the StecaGrid Vision display unit or a large-format display



	StecaGrid 3000	StecaGrid 3600
DC input side (PV-generator)		
Maximum start voltage	800 V	
Maximum input voltage	800 V	
Minimum input voltage	350 V	
Minimum input voltage for rated output	350 V	365 V
MPP voltage	350 V ... 600 V	
Maximum input current	10 A	
Maximum input power	3,060 W	3,690 W
Maximum recommended PV power	3,800 Wp	4,500 Wp
Derating / limiting	automatic when: <ul style="list-style-type: none"> - input power is higher - the device is not cooled sufficiently - input currents > 10 A - mains current > 16 A (higher currents are limited by the equipment and therefore will not damage the inverter)	
AC output side (Grid connection)		
Grid voltage	185 V ... 276 V [depending on regional settings]	
Rated grid voltage	230 V	
Maximum output current	16 A	
Maximum output power	3,000 W	3,600 W
Rated power	3,000 W	3,600 W
Rated frequency	50 Hz	
Frequency	45 Hz ... 65 Hz [depending on regional settings]	
Night-time power loss	< 0.9 W	
Feeding phases	single-phase	
Power factor	> 0.99	
Distortion factor	< 2 %	
Characterisation of the operating performance		
Maximum efficiency	98.6 %	
European efficiency	98.2 %	98.1 %
MPP efficiency	> 99.7 % (static), > 99 % (dynamic)	
Own consumption	5 W	
Power derating at full power	from 50 °C (T _{amb})	from 45 °C (T _{amb})
Switch-on power	7 W	
Standby power	2 W	
Safety		
Isolation principle	no galvanic isolation, transformerless	
Grid monitoring	yes, integrated	
Operating conditions		
Area of application	indoor rooms with or without air conditioning	
Ambient temperature	-15 °C ... +60 °C	
Storage temperature	-30 °C ... +80 °C	
Relative humidity	0 % ... 90 %	
Noise emission	42 dBA	
Fitting and construction		
Degree of protection	IP 51 (power unit), IP 20 (overall device)	
DC Input side connection	MultiContact MC 4 (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 kg	
Communication interface	RS485, 2 x RJ45 sockets, connectable to StecaGrid Vision, Meteocontrol WEB'log, Solar-Log™ or StecaGrid Monitor	
Integrated DC circuit breaker	yes, compliant with VDE 0100-712	
Cooling principle	temperature-controlled internal fan (variable speed)	
Test certificate	certificate of compliance as per DIN VDE 0126-1-1, CE mark; under preparation: DK 5940, G83, AS4777, UTE C 15-712-1	

System monitoring and accessories



StecaGrid Vision Display unit



Meteocontrol WEB'log and Meteocontrol WEB'log Comfort Data logger



StecaGrid Monitor Data logger



Solar-Log 500/1000™ Data logger