coolcept-x

StecaGrid 1500x, StecaGrid 2000x, StecaGrid 2500x, StecaGrid 3010x, StecaGrid 3600x, StecaGrid 4200x

1 ph

Highest efficiency with a long service life

The very high efficiency level results in a peak efficiency of 98.6% and a European efficiency level of up to 98.3%, which means that less power loss has to be generated and dissipated to the environment. These are your yield advantages.

A new and unique cooling concept inside the inverters also guarantees an even distribution of heat and therefore a long service life for the units.

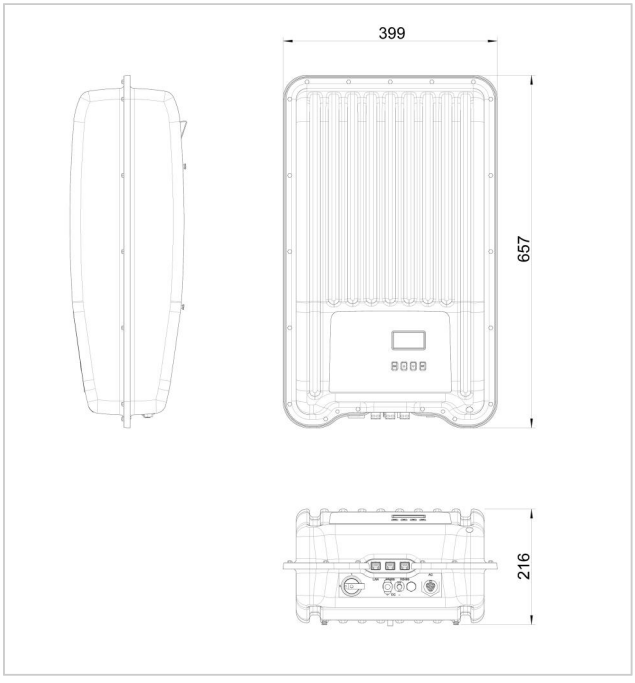
Product design and visualisation

The StecaGrid has a graphical LCD display that visualises energy yield values, current outputs and the operating parameters of the system. The innovative menu offers the possibility of an individual selection of the different measured values.

Thanks to a guided, pre-programmed menu, the seamless, final commissioning of the unit takes place.

Assembly

Weighing just 11 kg, 11.5 kg and 12 kg, the lightweight units can be mounted effortlessly and securely onto the wall. The wall bracket supplied enables simple and very convenient installation. It is also not necessary to open the unit for installation. All connections as well as the DC isolator are accessible from the outside.
The units meet all specifications of protection class IP 65: Its robust stainless steel housing reliably protects it from dust and water, including jet water. That means the inverters can be installed outdoors without any issue.



Product features

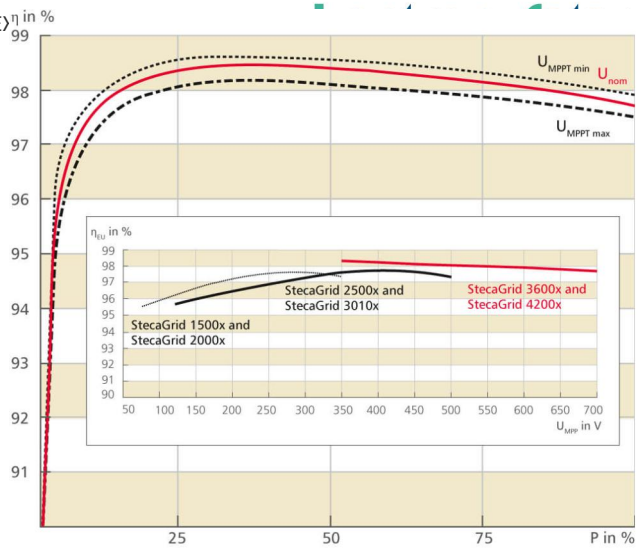
- Highest efficiency
- Simple installation
- Integrated data logger
- Low housing temperature at full load
- Solid stainless steel casing
- Suitable for outdoor installation
- Integrated DC circuit breaker
- Very long service life
- Droop Mode for integration in hybrid systems
- Fixed voltage mode for other energy sources
- Optimised shadow management using global MPP tracking

Displays

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

Operation

- Simple menu-driven operation
- Multilingual menu navigation



Efficiency values for the StecaGrid 3600x and comparison of the MPPT voltage of the all types

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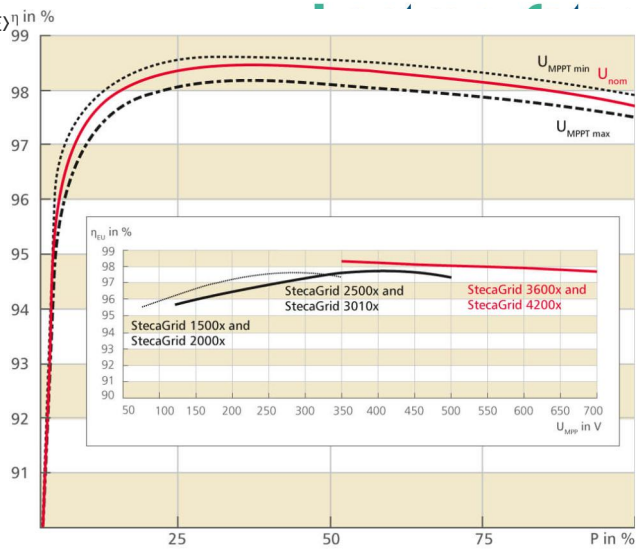

Efficiency values for the StecaGrid 3600x and comparison of the MPPT voltage of the all types

	StecaGrid 1500x	StecaGrid 2000x	StecaGrid 2500x	StecaGrid 3010x	StecaGrid 3600x	StecaGrid 4200x
DC input side (PV generator)						
Maximum input voltage	420 V	420 V	600 V	600 V	845 V	845 V
Operating input voltage range	75 V ... 350 V	75 V ... 350 V	125 V ... 500 V	125 V ... 500 V	350 V ... 700 V	350 V ... 700 V
Number of MPP tracker	1					
Maximum input current	11.5 A	11.5 A	11.5 A	11.5 A	12.0 A	12.0 A
Maximum short circuit current	+20 A / -13 A					
Maximum input power at maximum active output power	1540 W	2050 W	2560 W	3070 W	3770 W	4310 W
AC output side (Grid connection)						
Grid voltage	185 V ... 276 V (depending on regional settings)					
Rated grid voltage	230 V					
Maximum output current	12.0 A	12.0 A	14.0 A	14.0 A	16.0 A	18.5 A
Maximum active power (cos phi = 1)	1500 W	2000 W	2500 W	3000 W	3680 W	4200 W
Maximum active power (cos phi = 0.95)	1500 W	2000 W	2500 W	3000 W	3500 W	3990 W
Maximum apparent power (cos phi = 0.95)	1850 VA	2100 VA	2630 VA	3160 VA	3680 VA	4200 VA
Rated power	1500 W	2000 W	2500 W	3000 W	3680 W	4200 W
Rated frequency	50 Hz and 60 Hz					
Frequency range	45 Hz ... 65 Hz (depending on regional settings)					
Feeding phases	single-phase					
Total harmonic distortion (cos phi = 1)	< 2 %					
Power factor cos phi	0.95 capacitive ... 0.95 inductive					
Characterisation of the operating performance						
Max. efficiency	98.0 %	98.0 %	98.0 %	98.0 %	98.6 %	98.6 %
European efficiency	97.4 %	97.5 %	97.6 %	97.7 %	98.3 %	98.2 %
Californian efficiency	97.6 %	97.7 %	97.7 %	97.8 %	98.3 %	98.2 %
MPP efficiency	> 99.7 % (static), > 99 % (dynamic)					
Own consumption at night	< 2 W					
Power derating at full power from	50 °C (T_{amb})°	50 °C (T_{amb})°	50 °C (T_{amb})°	45 °C (T_{amb})°	50 °C (T_{amb})°	45 °C (T_{amb})°
Safety						
Isolation principle	no galvanic isolation, transformerless					
Grid monitoring	yes, integrated					
Residual current monitoring	yes, integrated (The design of the inverter prevents it from causing DC leakage current)					
Operating conditions						
Area of application	indoor rooms with or without air conditioning, outdoors with or without protection					
Climate protection class as per IEC 60721-3-4	4K4H					
Ambient temperature	-25 °C ... +60 °C					
Storage temperature	-30 °C ... +80 °C					
Relative humidity	0 % ... 100 %, non-condensating					
Noise emission (typical)	< 25 dBA	< 25 dBA	< 29 dBA	< 29 dBA	< 29 dBA	< 29 dBA
Fitting and construction						
Degree of protection	IP 65					
Overvoltage category	III (AC), II (DC)					
DC Input side connection	Phoenix Contact SUNCLIX (1 pair), mating connector included					
AC output side connection	Wieland RST25i3 plug, mating connector included					
Dimensions (X x Y x Z)	399 x 657 x 227 mm	399 x 657 x 227 mm	399 x 657 x 227 mm	399 x 657 x 222 mm	399 x 657 x 222 mm	399 x 657 x 222 mm
Weight	11.0 kg	11.0 kg	11.0 kg	12.0 kg	11.5 kg	11.5 kg
Communication interface	RS-485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log™), Ethernet interface (1 x RJ45)					
Integrated DC circuit breaker	yes, compliant with VDE 0100-712					
Cooling principle	temperature controlled fan, variable speed, internal (dustproof)					
Test certificate	see certificate download on the product page					

- Maximum active power Belgium: StecaGrid 3600(x) / 4200(x) = 3,330 W (cos phi = 1)
- Rated power Portugal: StecaGrid 3600(x) = 3,450 W, StecaGrid 4200(x) = 3,680 W

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