

coolcept-120

StecaGrid 2020

Highest efficiency with longer service life

The high efficiency results in a peak efficiency of 98.6 % and a European efficiency of up to 97.5 %, which results in less lost power that must be dissipated into the environment. This improves your yields.

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

The StecaGrid has 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.

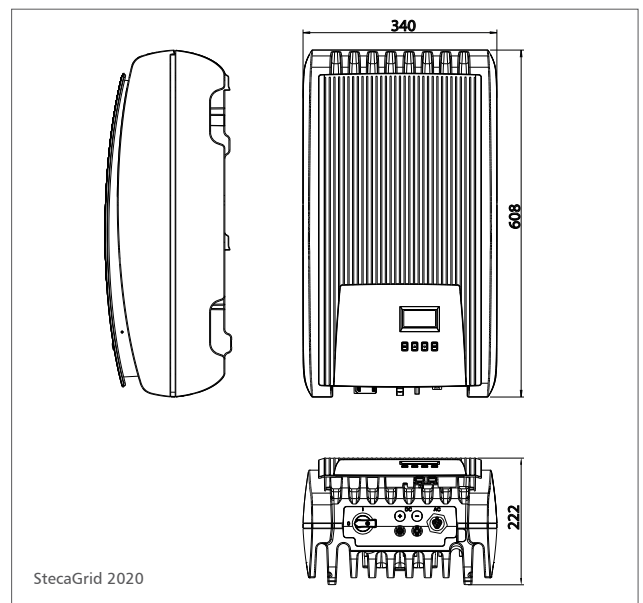
Installation

The lightweight units 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.

The coolcept-120 inverters meet all requirements for use in countries with 110 V, 120 V and 127 V grids. The devices are the optimum solution for markets such as South America, Africa and Asia.



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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
- Droop Mode for integration in hybrid systems (further information: Catalogue Steca PV Off Grid / Single-phase and three-phase AC hybrid systems)
- Fixed voltage mode for other energy sources
- Service menu for parameter adjustment
- 7-year warranty after registration

Displays

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

Operation

- Simple menu-driven operation
- Multilingual menu navigation

Options

- System monitoring with Solar-LogTM und WEB'log
- Can be connected to a large-format display

System monitoring and accessories



StecaGrid User
Visualisation software



StecaGrid SEM
Energy manager



Meteocontrol WEB'log
Data logger



Solar-Log™
Data logger

		120 V AC	StecaGrid 2020
DC input side (PV-generator)			
Maximum input voltage			450 V
Minimum input voltage for feeding			190 V
MPP voltage for rated output			210 V ... 400 V
Maximum input current			10 A
Maximum input power at maximum active output power			2,090 W
Maximum recommended PV power			2,400 Wp
AC output side (Grid connection)			
Grid voltage			90 V ... 150 V (depending on regional settings)
Rated grid voltage			120 V
Maximum output current			18 A
Maximum active power (cos phi = 1)			2,000 W
Rated power			2,000 W
Rated frequency			50 Hz and 60 Hz
Frequency			45 Hz ... 65 Hz (depending on regional settings)
Night-time power loss			< 0.9 W
Feeding phases			single phase
Distortion factor (cos phi = 1)			< 2 %
Power factor cos phi			> 0.99
Characterisation of the operating performance			
Maximum efficiency			97.5 %
European efficiency			96.7 %
Californian efficiency			96.8 %
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⁾
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 % ... 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 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 Meteocontrol WEB'log or Solar-Log™
Integrated DC circuit breaker			yes, compliant with DIN VDE 0100-712
Cooling principle			temperature-controlled fan, variable speed, internal (dustproof)
Test certificate			CE mark

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