

StecaGrid 20000 3ph and StecaGrid 23000 3ph

For universal use

The three-phase StecaGrid inverters are perfect suited for commercial rooftop systems right through to megawatt parks. Due to their output voltage of 460 V and their input voltage of 575 V to 900 V the StecaGrid 23000 3ph is the ideal player for medium voltage applications in large scale PV plants.

They comply with all requirements for IP 65 protection: their housing provides reliable protection from dust and water, including high pressure washing. These systems can therefore be installed out in the open without any problem.

Plug & play installation

The StecaGrid inverters are easy to handle and compact. Installation is safe and easy with simple plug connections and low weight. Installation costs are minimised because the devices also remain closed during installation.

Easy operation

Operation and monitoring are easy, further facilitated by the graphic display, the integrated RS485 interface and an Ethernet connection. The integrated data-logger collects and records all important operating data.

High efficiency

Even at low irradiation, the three-phase inverters achieve an efficiency of up to 98.3 %. As a result of these high efficiency levels convection cooling is all that is needed to dissipate the heat. This ensures, in addition to noise-free cooling, the maintenance-free inner workings of the inverter.

Product features

- High efficiency
- Wide input voltage range
- Three-phase, symmetrical grid feeding
- Integrated data logger
- Firmware update possible
- Integrated DC circuit breaker
- Robust metal casing
- Suitable for outdoor installation
- Wall-mounting with steel wall bracket for very easy installation

Displays

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

Operation

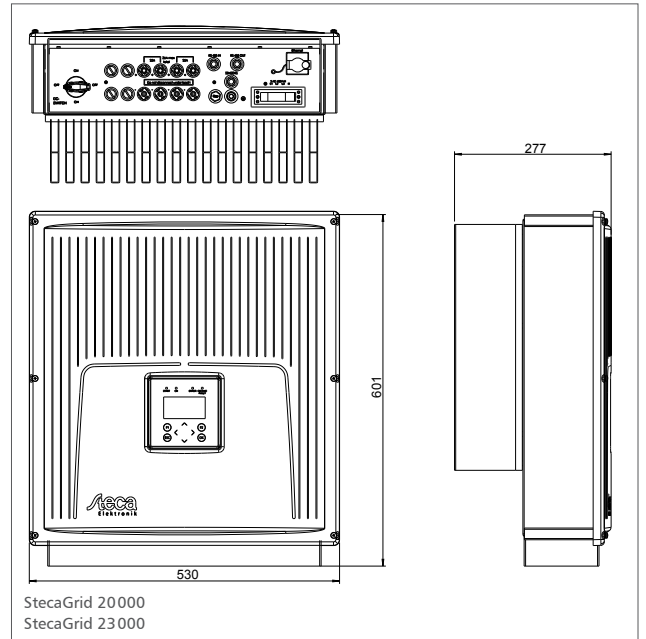
- Simple menu-driven operation
- Multilingual menu navigation

Options

- System monitoring with Solar-Log™ and WEB'log



StecaGrid 20000 3ph
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StecaGrid 20000
StecaGrid 23000

System monitoring and accessories



Meteocontrol WEB'log
Data logger



Solar-Log
Data logger



	StecaGrid 20000 3ph	StecaGrid 23000 3ph
DC input side (PV-generator)		
Maximum input voltage	1,000 V	
Maximum input voltage for feeding	250 V	
MPP voltage for rated output	490 V ... 850 V	575 V ... 900 V
Maximum input current	41 A	
Maximum recommended PV power	24,000 Wp	27,600 Wp
AC output side (Grid connection)		
Grid voltage	320 V ... 480 V	368 V ... 528 V
Rated grid voltage	400 V	460 V
Maximum output current	29.2 A	
Maximum active power (cos phi = 1)	20,000 W	23,000 W
Maximum active power (cos phi = 0.95)	19,000 W	21,850 W
Maximum active power (cos phi = 0.9)	18,000 W	20,700 W
Maximum apparent power (cos phi = 0.95)	19,000 VA	21,850 VA
Maximum apparent power (cos phi = 0.9)	18,000 VA	20,700 VA
Rated power	20,000 W	23,000 W
Rated frequency	50 Hz and 60 Hz	
Frequency	45 Hz ... 65 Hz	
Rated current	29 A	28.8 A
Night-time power loss	< 0.5 W	
Feeding phases	three-phase	
Distortion factor (cos phi = 1)	< 1.8 % (max. power)	
Power factor cos phi	0.8 capacitive ... 0.8 inductive	
Characterisation of the operating performance		
Maximum efficiency	98.2 %	98.3 %
European efficiency	97.8 %	98.1 %
MPP efficiency	99.9 %	
Safety		
Isolation principle	no galvanic isolation, transformerless	
Grid monitoring	yes, integrated	
Residual current monitoring	yes, integrated	
Operating conditions		
Area of application	indoor rooms with or without air conditioning, outdoors with or without protection	
Ambient temperature	-25 °C ... +55 °C	
Storage temperature	-25 °C ... +70 °C	
Relative humidity	0 % ... 100 % (non-condensating)	
Noise emission (typical)	< 45 dBA	
Fitting and construction		
Degree of protection	IP 65	
Overvoltage category	III (AC), II (DC)	
DC Input side connection	MultiContact MC4 (6 pairs), rated current 22 A per input	
AC output side connection - type	Screw-type terminal	
Dimensions (X x Y x Z)	530 x 601 x 277 mm	
Weight	38.4 kg	
Communication interface	RS485; Ethernet	
Integrated DC circuit breaker	yes, compliant with VDE 0100-712	
Cooling principle	natural convection	
Test certificate	CE mark, Clearance certificate as per DIN VDE 0126-1-1, VDE AR N 4105, G59 (Others available on request)	

