StecaGrid 8000 3ph and StecaGrid 10 000 3ph

Always symmetrical

The advantage of three-phase feeding is that the produced solar capacity is always symmetrically distributed on all three power conductors to the public power grid. This is the case across the whole output range offered by these inverters. When designing a system, the laborious avoidance of an asymmetry of more than 4.6 kW through the appropriate selection of separate inverters is thus dispensed with. Symmetrical feeding is greatly in the interests of energy supply companies. Lengthy discussions with such companies are therefore a thing of the past.

Long service live

While the voltage passes through zero on the grid-feeding phase, single-phase inverters must temporarily accommodate all energy supplied by the solar modules within the device. This is usually realised by electrolytic capacitors. These components influence the service life of an electronic device, due to the possibility of drying out.

With three-phase inverters, energy is fed into the grid on at least two phases at all times. Thus, the necessity of intermediate storage of energy in the device is greatly reduced, which is of benefit to the system operator with regard to a longer service life.

Flexible connection

Due to the wide input voltage range of 350 V to 845 V, and a maximum input current of 27 A / 32 A, all commonly available crystalline solar modules can be connected to the inverters in various configurations. Beyond this, the system is also approved for use with CdTe and CIS / CIGS thin-film modules. Five plug/socket pairs are available for flexible, mechanical DC connection.

Easy handling

Despite their high output, the inverters are wall-mounted devices. Thanks to the high degree of protection, those inverters can be installed indoors or outdoors. Due to the integrated DC circuit breaker, installation work is made easier, and the installation time is reduced. It is not necessary to open the inverter during installation.

Flexible system design

The combination of the StecaGrid 8000 3ph and the Steca-Grid 10 000 3ph allows optimum design for almost any power class. A diverse range of combinations are possible but they all share the same goal: the effective use of solar irradiation.





StecaGrid 8000 3ph

StecaGrid 10 000 3ph



StecaGrid 10 000 3ph, StecaGrid 8000 3ph similar

Product features

- High efficiency
- Wide input voltage range
- Three-phase, symmetrical grid feeding
- Low DC discharge currents due to special switching concept
- Integrated DC circuit breaker
- Robust metal casing
- Suitable for outdoor installation
- Wall-mounting with steel wall bracket for very easy installation

Displays

Multi-coloured LED shows operating states

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



	8000 3ph	10 000 3ph		8000 3ph	10 000 3ph
DC input side (PV-generator)			Characterisation of the operating performance		
vlaximum start voltage	845 V		Maximum efficiency	96.3 %	
Maximum input voltage	845 V		European efficiency	95.2 %	95.4 %
Vinimum input voltage	350 V		MPP efficiency	> 99 %	
dinimum input voltage	l output		Power derating at full power	from 50 °C (T _{amb})	
or rated output			Standby power	9 W	
MPP voltage	350 V 700 V		Safety		
Maximum input current	27 Δ	32 Δ	Isolation principle	no galvanic isolation, transformerless	
	0.250.11/	10.000 M	Grid monitoring	yes, integrated	
vlaximum input power at	9,250 VV	10,800 W	Operating conditions		
Vaximum recommended	10,500 Wp	12,500 Wp	Area of application	indoor rooms with or without air conditioning, outdoors with protection	
PV power			Corrosion categories	C3	
AC output side (Grid connection)			Ambient temperature	-20 °C +60 °C	
Grid voltage	320 V 480 V (depending on the regional settings)		Relative humidity	0 % 95 %	
•			Noise emission	< 60 dBA	
Rated grid voltage	ł grid voltage 400 V		Fitting and construction		
Maximum output current	15 A		Degree of protection	IP 54	
Maximum active power (cos bhi = 1)	8,800 W	10,300 W (10,000 if Belgium or Australia is selected)	Overvoltage category	III (AC), II (DC)	
			DC Input side connection	MultiContact MC4 (3 / 5 pairs), rated current 22 A per input	
Rated power	8 000 W	9 500 W	AC output side connection	Wieland RST25i5 plug, mating connector included	
Dated frequency	50 Hz		Dimensions (X x Y x Z)	400 x 847 x 225 mm	
			Weight	42 kg	
requency	47.5 Hz 52 Hz (depending on regional settings)		Communication interface	RS485 plug-in card (included in delivery); 2 x RJ45 sockets; connectable to StecaGrid Vision, Meteocontrol WEB'log or Solar-Log	
Night-time power loss	< 1.6 W				
eeding phases	three-phase		Integrated DC circuit breaker	yes, compliant with VDE 0100-712	
Distortion factor (cos phi = 1)	1) < 3 % (max, power)		Cooling principle	temperature-controlled fan, variable speed	
Power factor cos phi	1		Test certificate	certificate of compliance as per DIN VDE 0126-1-1, CE mark, DK 5940, G83, AS4777	

System monitoring and accessories



StecaGrid Vision Display unit



StecaGrid Monitor Data logger



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



Solar-Log 500/1000™ Data logger