

# COOLCEPT FLEX XL

Simply flexible, powerful and efficient



Thanks to its broad input voltage range and different power classes, the coolcept fleX XL is suited for almost all forms of equipment. The coolcept fleX XL provides a product range of 4.2 – 10 kW and contains two MPP trackers. This broad voltage and current range thus makes all arrangements easily possible. Maximum yields can be achieved as a result using innovative shadow management.

Through the high flexibility of the coolcept fleX XL almost any photovoltaics system can be fitted with this Steca inverter.

### Simply more communicative

The large number of communication interfaces renders further components for monitoring unnecessary. In addition, the coolcept fleX XL supports the advanced technologies which are found in the smart home area.

- Display, data logger, system monitoring, network and control response interfaces are integrated as standard
- Local and mobile system monitoring via PC, smartphone or tablet
- Free-of-charge solar portal – Steca sunCloud – for monitoring of the PV system
- Commissioning, configuration and display of graphically arranged yield data directly via the inverter display
- Connection of an external energy meter as an option
- EEBus and Sunspec for smart home integration

	StecaGrid 4213	StecaGrid 5513	StecaGrid 7013	StecaGrid 8513	StecaGrid 10013
<b>DC input side (PV generator)</b>					
Maximum input voltage	1000 V				
Operating input voltage range	120 V ... 720 V *				
Number of MPP tracker	2				
Maximum input current per MPPT	13.0 A				
Maximum input power at maximum active output power	4330 W	5670 W	7220 W	8760 W	10310 W
<b>AC output side (Grid connection)</b>					
Grid voltage	320 ... 460 V (depending on regional settings)				
Rated grid voltage	400 V				
Maximum output current	6.74 A	8.82 A	11.23 A	13.63 A	16.04 A
Maximum active power (cos phi = 1)	4200 W	5500 W	7000 W	8500 W	10000 W
Maximum apparent power	4200 VA	5500 VA	7000 VA	8500 VA	10000 VA
Rated power	4200 W	5500 W	7000 W	8500 W	10000 W
Rated frequency	50 HZ				
Frequency	47 Hz ... 52,5 Hz (depending on regional settings)				
Night-time power loss	<7,9 W				
Feeding phases	three-phase				
Total harmonic distortion (cos phi = 1)	<3%				
Power factor cos phi	0.8 capacitive ... 0.8 inductive				
<b>Characterisation of the operating performance</b>					
Max efficiency	97.1 %		97.2 %		
European efficiency	96.2 %		96.5 %		
Own consumption	< 7.9 W				
<b>Safety</b>					
Isolation principle	yes				
Grid monitoring	yes, integrated				
Residual current monitoring	yes, integrated (Personal protection internal to EN 62109-2, RCCB type B)				
Protection class	RCCB type B				
<b>Operating conditions</b>					
Area of application	indoor and outdoor use				
Ambient temperature	-20°C ... +60°C (-4°F ... +140°F)				
Relative humidity	4 % ... 100 %				
Noise emission (typical)	42 dBA				
<b>Fitting and construction</b>					
Degree of protection	IP 65 / IP 55 (housing / fan)				
Oversvoltage category	III (AC), II (DC)				
DC input side connection	Phoenix Contact SUNCLIX (2 pair)				
AC output side connection	Spring-type terminal strip				
Dimensions (X x Y x Z)	563 x 405 x 233 mm				
Weight	17.9 kg		19.9 kg		
Communication interface	Ethernet LAN (RJ45), Connection of energy meter for collecting energy data (Modbus RTU), 4x Digital inputs (e.g. for digital ripple control receiver), USB 2.0, Potential-free contact for self-consumption control, Webserver (user interface)				
Integrated DC circuit breaker	yes, compliant with VDE 0126-1-1				
Cooling principle	temperature controlled fan, variable speed, internal (dustproof)				
Test certificate	CE, GS, EN 62109-1, EN 62109-2, EN 60529, IEC 61683, CEI 0-21, EN 50438*, G83/2, IEC 61727, IEC 62116, RD 1699, TOR D4, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105				

\* MPP area 120V... 180V (with a limited current of 9.5-13a). MPP area 680V... 720V (with a limited current of 11a).