











STECA COOLCEPT FLEX

Coolcept fleX Steca grid connection inverters introduces the successor generation to the established coolcept-topology. Coolcept fleX offers a creative energy concept for any modern home.



StecaGrid Coolcept Flex



StecaGrid Coolcept Flex

 $\textbf{Coolcept fleX} \ \text{offers an complette inverters family of grid conneciton inverters for the actual home.}$

What is coolcept?

Coolcept is Steca's new inverter topology that provides the highest peak efficiency. It is basically characterised by circuit simplicity combined with highest efficiency. The patented coolcept topology is a global innovation that is only available from

The advantages of coolcept

Coolcept is cool.

High peak efficiency means the lowest possible heat dissipation. This makes cooling elements unnecessary.

Stable peak efficiency over the entire power range ensures maximum yields.

Coolcept is long-living.

Low heat dissipation and cool components guarantee a long service life.

This incomparably affordable all-in one solution offers functions for very different applications and is even scalable in relation to the power requirement. Whether you need one or more MPP trackers, high-voltage or low-voltage storage, or a solution with or without an emergency power supply – everything is possible. Steca has already thought of and prepared for charging an electric vehicle straight from a PV generator. The new components and setting options enable the use in many

Maximum efficiencies at all input voltages and reliable cooling concept

The maximum efficiencies of the state-of-the-art power electronics topology ensure minimal losses, thus guaranteeing a very long service life thanks to extremely low levels of self-heating.

	StecaGrid 1511	StecaGrid 2011	StecaGrid 2511	StecaGrid 3011	StecaGrid 3011- 2	StecaGrid 3611	StecaGrid 3611- 2	StecaGrid 46:						
OC Input side (PV generator)														
Maximum input voltage	450 V	450 V	450 V	750 V	750 V	750 V	750 V	750 V						
Operating input voltage range	75 360 V	75 360 V	75 360 V	125 600 V	125 600 V	150 600 V	150 600 V	150 600						
Operating input voltage range (maximum power)	120 360 V	160 360 V	200 360 V	230 600 V	230 600 V	280 600 V	280 600 V	360 600 \						
lumber of MPPT tracker	1	1	1	1	2	1	2	2						
Maximum input current	13,0 A	13,0 A	13,0 A	13,0 A	2 x 13,0 A	13,0 A	2 x 13,0 A	2 x 13,0 A						
laximum input power	1540 W	2050 W	2560 W	3070 W	3070 W	3770 W	3770 W	4740 W						
.C output side (Grid connection)														
rid voltage	185 267 V (depending on regional setings)													
ated grid voltage	230 V													
faximum output current	12,0 A	12,0 A	14,0 A	14,0 A	14,0 A	16,0 A	16,0 A	20,0 A						
faximum active power (cos phi = 1)	1500 W	2000 W	2500 W	3000 W	3000 W	3680 W	3680 W	4600 W						
faximum apparent power	1500 VA	2000 VA	2500 VA	3000 VA	3000 VA	3680 VA	3680 VA	4600 VA						
lated power	1500 W	2000 W	2500 W	3000 W	3000 W	3680 W	3680 W	4600 W						
ated frequency				5	60 / 60 Hz									
requency	45 65 Hz (depending on regional setings)													
ight-time power loss	< 3 W													
eeding phases	Single phase													
otal harmonic distorsion (cos phi = 1)	< 3 %													
ower factor cos phi	0,8 capacitative 0,8 inductive													
erformance				.,,,,,,,,										
ax. Efficiency	97,4 %	97,4 %	97,4 %	97 %	97 %	97 %	97 %	97,4 %						
uropean efficiency	96,1 %	96,5 %	96,6 %	96,3 %	96,3 %	96,3 %	96,3 %	96,9 %						
PP Efficiency	00,170			·	ntic), > 99% (dynami			00,0 70						
wn consumption				2 33,7 70 (300	< 20 W									
ower derating at full power from	50 °C (Tamb)	50 °C (Tamb)	50 °C (Tamb)	50 °C (Tamb)	45 °C (Tamb)	45 °C (Tamb)	45 °C (Tamb)	40 °C (Tam						
afety				(
olation principle				Transformerles	s. No galvanic issola	ation								
rid monitoring	Transformerless, No galvanic issolation Yes, integrated													
esidual current monitoring	Yes, Integrated (The design of the inverter prevents it from causing DC leakage current)													
rotection class	Protection class 2 (RCD Type A sufficient)													
perating conditions				Total Ciabs										
rea of application				Outdo	oors & indoors									
mbient class (IEC 6071-3-4)	4K4H													
mbient temperature	- 25 °C 60 °C													
torage temperature	- 30 °C 80 °C													
elative humidity	0 100 % (non-condensating)													
oise emission (typical)	31 dBA													
itting and construction					31 45/1									
egree of protection					IP 65									
vervoltage category	III (AC), II (DC)													
C input side connection														
·	Phoenix Contact SUNCLIX (connectors included) Connector Wieland RST25i3 (connectors included)													
C input side connection			Conn			included)								
immensions (X x Y x Z)	1171/-	11 7 1/-	1171/-		399 x 222 mm	10.41/	12.0 //	12.1 1/						
/eight	11,7 Kg	11,7 Kg	11,7 Kg	12,4 Kg	13,0 Kg	12,4 Kg	13,0 Kg	13,1 Kg						
ommunication interface	RS-485 (1 x RJ45)													
tegrated DC circuit breaker	Yes, Compliant with DIN VDE 0100-712													
poling principle			-	,	A CONTRACT OF THE PARTY OF THE	1.7.7	Temperature controlled fan, variable speed, internal (dustproof)							

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