coolcept

StecaGrid 1500, StecaGrid 2000, StecaGrid 2500, StecaGrid 3010, StecaGrid 3600, StecaGrid 4200

Highest efficiency with longer service life

The high efficiency results in a peak efficiency of 98.6 % and a European efficiency of up to 98.3 %, 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 lightweights weigh only 8.3 kg, 9.5 kg, 9.6 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.



Product features

- · Highest efficiency
- Simple installation
- Integrated data logger
- · Low housing temperature at full load
- · Integrated DC circuit breaker
- Protective insulation according to protection class II
- Very long service life
- Droop Mode for integration in hybrid systems
- Fixed voltage mode for other energy sources
- 7-year warranty after registration
- · Optimised shadow management using global MPP tracking

Displays

- $\cdot\,$ Multifunction graphical LCD display with backlighting
- Animated representation of yield

Operation

- · Simple menu-driven operation
- Multilingual menu navigation

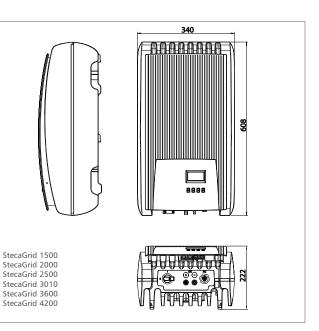
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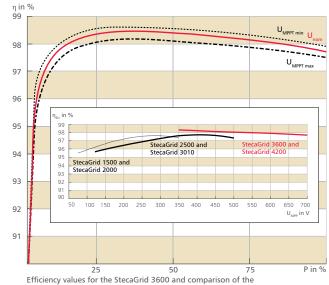
- · Can be connected to a large-format display
- 120 V variant: StecaGrid 2020
- (on request)





StecaGrid 1500 StecaGrid 2000 StecaGrid 2500 StecaGrid 3010 StecaGrid 3600 StecaGrid 4200





MPPT voltage of the all types

System monitoring and accessories



StecaGrid User Visualisation software



StecaGrid Portal Web portal



StecaGrid SEM Energy manager



Solar-Log[™] and Meteocontrol WEB'log Accessories

Definition of the dependence of the series		StecaGrid 1500	StecaGrid 2000	StecaGrid 2500	StecaGrid 3010	StecaGrid 3600	StecaGrid 4200	
Operating input vhlopp range 75	DC input side (PV-generator)							
Jumice of JAPP Tocker 1 1 Maximum indo tourint 115.4 12.4 Maximum indo tourint 1.540 W 2.560 W 3.070 W 3.770 W 4.310 W Maximum indo tourint 1.540 W 2.560 W 3.070 W 3.770 W 4.310 W Maximum incommended PV power 1.800 Wp 2.500 Wp 3.100 Wp 3.800 Wp 4.500 Wp 5.200 Wp Ac output side (find connection) 200 V 2.500 W 3.000 W 3.680 W ¹ 4.200 W ¹ Maximum active power 1.500 W 2.000 W 2.500 W 3.000 W 3.680 W ¹ 4.200 W ¹ Maximum active power 1.500 W 2.000 W 2.500 W 3.000 W 3.680 W ¹ 4.200 W ¹ Maximum active power 1.500 W 2.000 W 2.500 W 3.000 W 3.680 W ¹ 4.200 W ² Maximum apparent power 1.500 W 2.000 W 2.600 W 3.000 W 3.680 W ¹ 4.200 W ² Maximum apparent power 1.500 W 2.000 W 2.610 W 3.000 W 3.680 W ² 4.200 W ²	Maximum input voltage	420 V		600 V		845 V		
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Name extere output power extere output power extere output power field output extere output power field field fiel	Number of MPP-Tracker	1						
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Bated grid voltage 230 V Maximum actiput current 12 A 14 A 0.00 V 3.000 VV 3.600 VV 4.200 W Maximum actiput current 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VI Maximum actiput current 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Maximum actiput current 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Maximum actiput current 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Maximum actiput current 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Relet power 1.500 V 2.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Relet power 5.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Relet power 5.000 VV 2.500 VV 3.000 VV 3.680 VA 4.200 VA Contrasting on the power fold	AC output side (Grid connection)							
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(cos phi = 0.9s)		1,500 W	2,000 W	2,500 W	3,000 W	3,500 W	3,990 W	
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Night-time power loss<<Feeding phasessingle-phaseDistortion factor (cos phi = 1)<								
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Power derating at full powerab 50 °C (T_mt)ab 50 °C (T_mt)ab 45 °C (T_mt)ab 45 °C (T_mt)SafetyIsolation principleno galvanic isolation, transformerlessGrid monitoringyes, integratedResidual current monitoringOperating conditionsArea of applicationIndoor rooms with or without air conditioningClimatic category according to IEC 60721-3-3Ambient temperature-15 °C +60 °CStorage temperature								
Safety Image Imagee	Own consumption							
Isolation principleno galvanic isolation, transformerlessGrid monitoringyes, integratedResidual current monitoringyes, integratedOperating conditionsArea of applicationindoor rooms with or without air conditioningClimatic category according to IEC 60721-3-33K3Ambient temperature-15 °C +60 °CStorage temperature-30 °C +80 °CRelative humidity0% 95 %, non-condensatingNoise emission (typical)22 dBA23 dBA26 dBA29 dBA31 dBAIII (AC), II (DC)Degree of protectionWeightAc output side connectionPhoenix Contact SUNCLIX (1 pair), mating connector includedA coutput side connectionPhoenix Contact SUNCLIX (1 pair), mating connector includedAG ox Su S Size Size Size Size Size Size Size Si	Power derating at full power	ab 50 °C (T_{amb}) ab 45 °C (T_{amb}) ab 50 °C (T_{amb}) ab 45 °C (T_{amb}) ab 45 °C (T_{amb})						
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Residual current monitoring yes, integrated 4i Operating conditions indoor rooms with or without air conditioning Area of application 3K3 Climatic category according to IEC 60721-3-3 3K3 Ambient temperature -15 °C +60 °C Storage temperature -30 °C +80 °C Relative humidity 0 % 95 %, non-condensating Noise emission (typical) 22 dBA 23 dBA 26 dBA 29 dBA 31 dBA Fitting and construction IIP 21 (casing: IP 51; display: IP 21) 31 dBA Degree of protection III (AC), II (DC) Vervoltage category III (AC), II (DC) DC Input side connection Phoenix Contact SUNCLIX (1 pair), mating connector included AC output side connector included AC output side connection Weight 8.3 kg 9.6 kg 9.1 kg Ommunication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log °, 1 x RJ11 socket: connectable to Mobus RTU counter), Ethernet interface (1 x RJ45) Interpreture-controlled fan, variable speed, internal (dustproof) Integrated DC circuit breaker yes, compliant with VDE 0100-712 Coning principle Control fan, variable speed, internal (dustproof)	Isolation principle	no galvanic isolation, transformerless						
Operating conditions Area of application Climatic category according to IEC 60721-3-3 Ambient temperature -15 °C +60 °C Storage temperature -30 °C +80 °C Relative humidity Noise emission (typical) 22 dBA 23 dBA 26 dBA 29 dBA 31 dBA Fitting and construction Degree of protection Overvoltage category III (AC), II (DC) DC Input side connection Phoenix Contact SUNCLIX (1 pair), mating connector included Act output side connection Dimensions (X x Y x Z) Weight 8.3 kg 9.6 kg 9.1 kg Communication interface RS485 (2 x RI45 sockets; connectable to Meteocontrol WEB'log or Solar-Log", 1 x RI11 socket: connectable to Modus RTU counter), Ethernet interface (1 x RI45) Integrated DC circuit breaker yes, compliant with VDE 0100-712 Cooling principle temperature-controlled fan, variable speed, internal (dustproof)	Grid monitoring	yes, integrated						
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Relative humidity 0 % 95 %, non-condensating Noise emission (typical) 22 dBA 23 dBA 26 dBA 29 dBA 31 dBA Fitting and construction	Ambient temperature	-15 °C +60 °C						
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Degree of protection IP 21 (casing: IP 51; display: IP 21) Overvoltage category III (AC), II (DC) DC Input side connection Phoenix Contact SUNCLIX (1 pair), mating connector included AC output side connection Wieland RST25i3 plug, mating connector included Dimensions (X x Y x Z) 340 x 608 x 222 mm Weight 8.3 kg 9.6 kg 9.1 kg Communication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log™, 1 x RJ11 socket: connectable to Modbus RTU counter), Ethernet interface (1 x RJ45) Integrated DC circuit breaker Vesign definition temperature-controlled fan, variable speed, internal (dustproof)	Noise emission (typical)	22 dBA	23 dBA	1	-	dBA	31 dBA	
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Dimensions (X x Y x Z) 340 x 608 x 222 mm Weight 8.3 kg 9.6 kg 9.1 kg Communication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log [™] , 1 x RJ11 socket: connectable to Modbus RTU counter), Ethernet interface (1 x RJ45) Note of the solar	DC Input side connection	Phoenix Contact SUNCLIX (1 pair), mating connector included						
Weight 8.3 kg 9.6 kg 9.1 kg Communication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log [™] , 1 x RJ11 socket: connectable to Modbus RTU counter), Ethernet interface (1 x RJ45) 9.1 kg Integrated DC circuit breaker yes, compliant with VDE 0100-712 Cooling principle temperature-controlled fan, variable speed, internal (dustproof)	AC output side connection	Wieland RST25i3 plug, mating connector included						
Communication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log [™] , 1 x RJ11 socket: connectable to Modbus RTU counter), Ethernet interface (1 x RJ45) Integrated DC circuit breaker yes, compliant with VDE 0100-712 Cooling principle temperature-controlled fan, variable speed, internal (dustproof)	Dimensions (X x Y x Z)		340 x 608 x 222 mm					
Communication interface RS485 (2 x RJ45 sockets; connectable to Meteocontrol WEB'log or Solar-Log [™] , 1 x RJ11 socket: connectable to Modbus RTU counter), Ethernet interface (1 x RJ45) Integrated DC circuit breaker yes, compliant with VDE 0100-712 Cooling principle temperature-controlled fan, variable speed, internal (dustproof)	Weight	8.3	8.3 kg 9.6 kg 9.1 kg					
Cooling principle temperature-controlled fan, variable speed, internal (dustproof)	Communication interface	RS485 (2 x RJ45 soc						
	Integrated DC circuit breaker			yes, compliant wi	th VDE 0100-712			
Test certificate see certificate download on the product page	Cooling principle		tempera	ture-controlled fan, var	iable speed, internal (du	ustproof)		
	Test certificate	see certificate download on the product page						



¹⁾ Belgium: 3,330 W ²⁾ Portugal: 3,450 W ³⁾ Portugal: 3,680 W ⁴⁾ The design of the inverter prevents it from causing DC leakage current.