



StecaGrid MasterSlave concept

Discover flexibility and more...

StecaGrid 2000 (Master/Slave)

The Highlights

Flexible - The MasterSlave concept

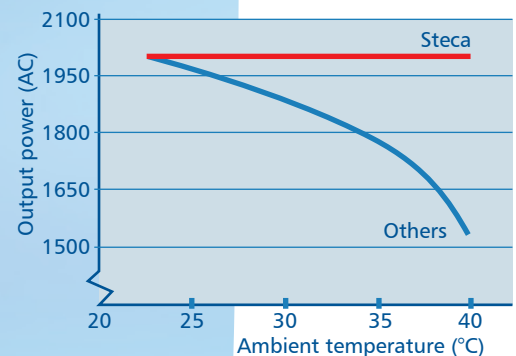
- The StecaGrid 2000 is available as a „Master“ and a „Slave“. The Master is a combination of a control unit plus an inverter and can be expanded by adding a further 1 or 2 separate inverters, or „Slaves“. Allowing the system to be upgraded flexibly from 2000 up to 6000 W.
- Cooling ribs provide the system with maintenance-free, natural and noiseless ventilation.

Eco-efficiency

- The StecaGrid 2000 has a maximum power efficiency rate of 95 %.
- Each solar panel has its own optimum operating voltage. This is the voltage at which the panel generates the highest possible power and depends on factors such as irradiation, shade and ambient temperature. Because no two solar panels are ever operating in exactly the same circumstances, the ideal operating voltage (or maximum power point) differs from panel to panel. The StecaGrid 2000 contains high speed maximum power point trackers to trace this ideal operating voltage. Because the StecaGrid 2000 has 2 entry points, 2 strings of solar modules can be connected.

The StecaGrid 2000 then searches for the maximum power point per string. As a result, your solar system is less sensitive to those factors such as partial shade and ambient temperature.

- The StecaGrid 2000 generates a constant maximum capacity of 2000 W also at higher ambient temperatures (see graph).



Ease of installation and use

- Low weight and easy-to-mount assembly plates, allowing installation by just one person.
- Easy-to-find current and historical information on the display.
- Suitable for outdoor installation through protection class IP55.
- Available with both Tyco and Multicontact DC connections.
- Easy remote servicing possible (optional).
- Suitable for many configurations due to wide input voltage operating range.
- System extendable later on by connecting additional Slave.

The Options

StecaGrid Connect:

The StecaGrid 2000 Master Inverter can be expanded using StecaGrid Connect. StecaGrid Connect is a PC/network interface based on standard internet protocol. The standard StecaGrid Connect package provides HTML pages that can be opened with an Internet Browser and so actual power and energy yield of the inverter can be seen.

StecaGrid Service Software – End-User Version:

This shows both current performance and historical performance per 10 minutes, day, month and year. The data is available for each inverter or for your overall system. Multiple inverters can be added.

StecaGrid Service Software – Installer Version:

This allows remote commissioning, maintenance checks, diagnostics and changing of operating settings.

Norms and certifications

The StecaGrid 2000 meets with following norms and certifications:

EMC emission.....	EN 50081-1 (EN 55014 and EN 55022 Class A)
Immunity.....	EN 50082-1
RF basis	EN 300 220
ENS	DIN VDE 0126
Safety	EN 60950 and EN 50178
Quality standard.....	ISO 9001
Environmental standard.....	ISO 14001
KEMA, CE marking	

Warranty

StecaGrid 2000 comes with a 5 year warranty as standard.

The technical details of the StecaGrid 2000

	2000 D Master	2000 Master	2000 Slave
Input			
Maximum DC input power	2150 Wdc		
Input voltage operating range	80 - 400 Vdc		
Maximum startup input voltage	420 Vdc		
Absolute maximum input voltage	450 Vdc		
Maximum input current	2 x 5 A (with 2 separated MPP Trackers) or 1 x 10 A (with 1 MPP Tracker)		
Connections DC	Multi Contact MC 4 (Solarline 1) or Tyco		
Output			
Rated AC output power	2000 W		
Rated AC output voltage	230 V / 50 Hz		
Max. power conversion efficiency	95%		
European efficiency	92.4 %	92.4 %	92.6 %
Output power factor	> 0.95		
Total harmonic distortion	< 5 % @ maximum power		
Connections AC	WAGO 2.5 - 6 mm ²		
Ambient conditions			
Temperature	-25 ... +60 °C (up to 40 °C without derating)		
Installation	inside or outside		
Protection class	IP55		IP65
Other			
Isolation system	HF-transformer (with galvanic separation)		
Start / switch off	automatic start / stopp		
Power consumption sleep mode	1.3 W	1 W	0 W
Grid connected protection features	ENS conform to DIN VDE 0126	230 V (-14 % / +10 %)* 50 Hz (+/- 2 Hz)*	-
Indication features	Display, LED		
Noise	< 32 dBA		
Weight	11 kg		9 kg
Dimensions (h x l x w)	515 x 351 x 140 mm		515 x 226 x 140 mm

*) Other values are possible by country setting