

Solar inverter

Solar inverter KS-Series 10000 – 20000W

Grid-connected
10000, 12500, 15000, 17000 and 20000 Watt,
Three-phase output

NEU / NEW

The KS series solar inverters with an output of 10,000 to 20,000 watts are suitable for commercial use. They are characterized by three independent MPP trackers and a three-phase output.



Properties

High efficiency

- Euro efficiency up to 97.7%
- MPPT accuracy > 99.9%

High reliability

- DC / AC output converter with three-phase bridge
- Three independent MPP trackers for optimum energy efficiency.
- Low sensitivity to disturbances in the power grid

High flexibility

- Wide DC input voltage range up to 900VDC
- Wide operating temperature range -20°C / +40°C

Easy to use

- RS-232/RS485 interfaces
- DC cable connection without special tools
- Easily accessible connection area
- Incl. DC switch
- Easy to read LCD panel with all operational status and monitoring data.



Photo above:

DC cable connection without special tools and an easily accessible and clear connection area simplify commissioning of the KS series photovoltaic inverters.



Above: Clear DC connector panel for DC connection without special tools incl. DC breaker

Left: Communication Ports and terminals for three-phase output

Specification

Model		KS 10000	KS 12500	KS 15000	KS 17000	KS 20000
Input (DC)	Max. DC power (STP Modul) [W]	10000	12500	15000	17000	20000
	Max. DC power [W]	12000	13500	17000	18000	21000
	Max. DC voltage [VDC]	900*				
	Max. input current [A]	12/12/12A		17/17/17A		
	Number of MPP tracker / Strings per MPP tracker	3 / 2				
	Max. MPPT voltage range (@ nominal power)	250-850 VDC				
	Max. DC power per MPP tracker	5.5kW		7.5kW		
Output (AC)	Nominal AC power [W]	10000	12500	15000	17000	20000
	Max. AC power output [W]	10000	13000	15500	17500	21000
	Max. output current [A]	17	20	24	27	30
	Wire / Nominal AC voltage	3 / N / PE, 230 / 400VAC				
	AC voltage window	400V ± 20% (adjustable)				
	AC grid frequency / range [Hz]	50/60 Hz ± 5Hz (adjustable)				
	Power factor (cosφ), adjustable	0.9 leading- 0.9 lagging				
	Total harmonic distortion (THDi)	<3% (at nominal power)				
Efficiency	Max. efficiency	> 98%		> 98.1%		> 98.2%
	Euro-efficiency	97.5%		> 97.6%		> 97.7%
	MPPT efficiency	99.9%		99.9%		99.9%
General data	Dimensions (W / H / D) [mm]	506 x 670 x 210		522 x 690 x 210		
	Weight [kg]	40		50		
	Operating temperature range [°C]	-20°C ~ +40°C				
	Ingress protection	IP65 (not intended for outdoor use)				
	Topology	transformer-less				
	Internal consumption (stand-by / night)	< 10W / < 2W		< 15W / < 2W		
	Cooling concept	forced air cooling				
	Noise (typical) [dB]	< 40dB				
	LCD display	yes				
	Communication port	RS485 standard; RS232, external WIFI or Ethernet (optional)				
	Standard warranty [year]	5				
	DC switch	integrated				
	Protection	DC reverse-polarity protection	yes			
All-pole fault current monitoring		yes				
AC short-circuit protection		yes				
Ground fault monitoring		yes				
Regulations / standards	Safety	EN 62109-1, EN 62109-2, VDE V 0126-1-1, VDE V 0124-100, VDE AR N 4105				
	EMC	EN 61000-6-2, EN 61000-6-3				
	Certifications	CE				

* no galvanic isolation – note installation introduction of the solar-panel manufacturer.