

Solar inverter KS-Series 1500 – 5000W

Grid-connected ,
1.500, 2.000, 3.000, 3.600, 4.200 and 5.000Watt,

NEU / NEW

The KS series solar inverters with an output of 1,500 to 5,000 watts are suitable for private use. They are characterized by high efficiency, reliability, compact design easy installation.

Properties

High efficiency

- Euro efficiency up to 96.8%
- High MPPT accuracy
- Fast MPPT calculation method
- Extreme low power loss at night
- Very high conversion efficiency DC-DC through soft-switch technology.

High reliability

- Perfect cooling concept
- No derating up to 50°C during operation
- Comprehensive electronic protection such as over-current protection and internal inverter protection
- Monitoring of insulation resistance and leakage current
- Transformerless, no galvanic isolation

User-friendly maintenance / commissioning

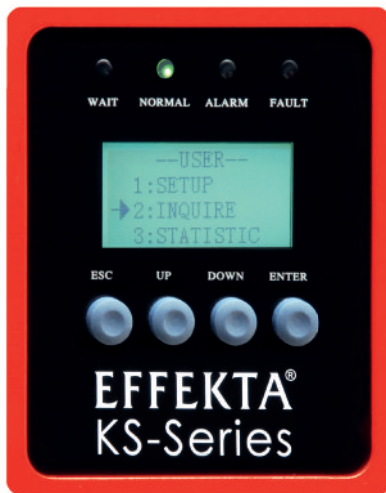
- Easy to install
- DC cable connection without special tools
- LCD panel with all operating status and monitoring data
- RS232/RS485 communication (optional WLAN)
- DC switch (optional) can be integrated into the housing



Above: DT model
(2 MPPT trackers - available with 3000-5000 watts)



Above: ST-Modell
(1 MPPT tracker - available with 1500-3600 watts)



Above: Bottom of the DT models (2 MPPT trackers) with DC connector panel, AC output, communication ports, and optional integrated DC disconnect switch (view without cooling fins)

Left: Control panel of the DT models (2 MPPT trackers)

Specification

Model		KS 1500ST	KS 2000ST	KS 3000ST	KS 3600ST	KS 3000DT	KS 3600DT	KS 4200DT	KS 5000DT	
Input (DC)	Nominal DC power[Wp]	1650	2200	3100	3900	3100	3900	4300	5100	
	Max. DC power ($\pm 10\sim 20\%$) [Wp]	1800	2400	3300	4000	3300	4000	4600	5500	
	Max. DC voltage[V]	500VDC				600VDC				
	Max. input current[A]	11	13	19	22	2 x 12	2 x 14	2 x 16	2 x 17	
	Number of MPP tracker / Strings per MPP tracker	1 / 1	1 / 2			2 / 2				
	MPPT voltage range (@ nom.power)	150-450VDC*				150-500VDC*				
	Max. DC power per MPP tracker	1800W	2400W	3300W	4000W	1800W	2200W	2500W	3000W	
Output (AC)	Nominal AC power [W]	1500	2000	3000	3600	3000	3600	4200	5.0/4.6K**	
	Max. AC power [W]	1650	2200	3100	3700	3100	3700	4300	5.1/4.6K**	
	Max. output current[A]	9	11	15	18	15	18	21	24	
	Rated output current (rms) [A]	6.5	8.7	13	15.6	13	15.6	18.3	21.7	
	Wire / Nominal AC voltage	1 / N / PE, 230VAC								
	AC voltage window	184V~264V								
	AC grid frequency / range [Hz]	50 / 60Hz ± 5 Hz								
	Power factor (cos ϕ), adjustable	1				0.9 leading- 0.9 lagging				
	Total harmonic distortion (THDi)	<3%								
	Efficiency	Max. efficiency	> 96.0%				> 97.5%			
Euro-efficiency		> 95.0%				> 96.5%				
MPPT efficiency		> 99.9%								
General data	Dimensions (W / H / D) [mm]	335 x 580 x 180				400 x 637 x 190				
	Weight [kg]	15.8	18.2			22				
	Operating temperature range [°C]	-20°C ~ +40°C								
	Ingress protection	IP65 (not intended for outdoor use)								
	Topology	transformer-less								
	Internal DC consumption (stand-by / night)	< 5 W / < 0.2 W				< 12 W / < 0.2 W				
	Cooling concept	convection cooling								
	Noise (typical) [dB]	< 25dB								
	LCD display	Yes								
	Communication port	RS485 standard; RS232, external WIFI o. Ethernet (option)								
	Standard warranty [year]	5								
	DC switch	Option (can be integrated into the housing)								
	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				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				EN 61000-6-2, EN 61000-6-3				
	Certifications	CE								

* Note: Exceeding or outside of MPPT voltage range: Error message, no power feeding

** Note: According to VDE-AR-N-4105