Solar inverter

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, campact design easy installation.

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

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 throug soft-switch technology.

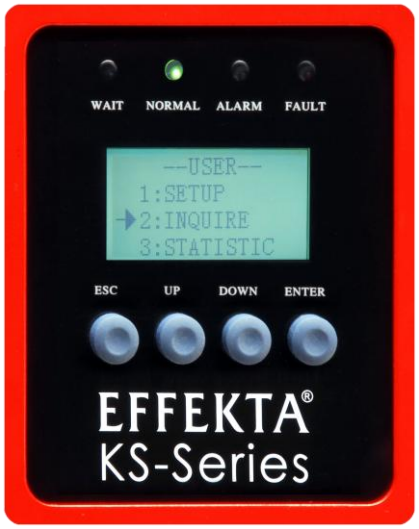
High reliability

- 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: 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

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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 (±10~20%) [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 ± 5Hz							
	Power factor (cosφ), 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 cisplay	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

Errors and omissions excepted