



KSG-SM SERIES

KSG-1K-SM

KSG-1.5K-SM

KSG-2K-SM

KSG-3K-SM



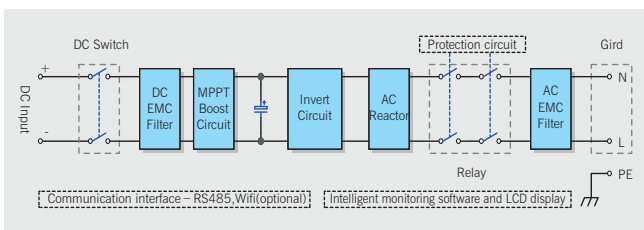
Design

- Max PV Voltage up to 500V
- Single MPPT
- High efficiency up to 97.5%
- Smaller and Lighter
- IP65 protection
- Easy installation

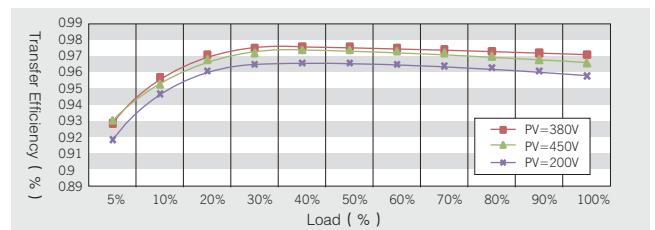
Certification

- TUV
- CE
- VDE 0126
- EN 50438
- PEA/MEA
- IEC 62109
- IEC 61000
- IEC 61727
- IEC 61683
- IEC 62116

Circuit diagram



Efficiency curve



Powering Green Future

- www.kstarpower.com

KSTAR

— Stock code: 002518 —

KSG-SM Series Technical Specifications

Model	KSG-1K-SM	KSG-1.5K-SM	KSG-2K-SM	KSG-3K-SM
Input (DC)				
Max. DC power	1300W	1950W	2600W	3900W
Max. DC voltage / Nominal DC voltage	500Vdc / 380Vdc			
MPPT voltage range	90~490Vdc		100~490Vdc	
Full load MPPT voltage range	105~400Vdc	145~400Vdc	190~400Vdc	240~400Vdc
Min. / start DC voltage	90 / 100Vdc		120 / 150Vdc	
Number of MPPT trackers	1			
Strings per MPPT tracker	1			
Max. input current per MPPT tracker	11A			13A
Output (AC)				
Max. AC output Power	1000W	1500W	2000W	3000W
Nominal AC voltage	230Vac			
AC voltage range	230Vac±20%			
Nominal AC grid frequency	50 / 60Hz			
AC grid frequency range	50 / 60Hz(±5Hz)			
Max. output current	4.5A	7A	9A	14A
Power factor (cosΦ)	1			
THDI	<3%			
AC connection	LN+PE			
Topology	Transformer-less			
Efficiency				
Max. efficiency	96.5%		97.6%	
Euro efficiency	96%		97%	
MPPT efficiency	99.90%			
Consumption: standby / night	<5W / <0.2W			
Protection devices				
AC leakage current fault protection	Yes			
Ground fault protection	Yes			
Anti-islanding protection	Yes			
DC overvoltage protection	Yes			
DC surge protection	Yes			
AC surge protection	Yes			
DC reverse-polarity protection	Yes			
Physical				
Dimensions (W / L / D) in mm	264 / 326 / 127			
Weight	7.6Kg	8.1Kg		8.6Kg
Environment				
Operating temperature range	-25°C~+60°C			
Noise emission (typical)	≤ 25dB			
Cooling type	Natural cooling			
Protection rating	IP65			
Features				
LCD display	Yes			
Interfaces	RS485			
Optional	DC Switch / WiFi Plug / GPRS Plug			

Specifications subject to change without prior notice.

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HEADQUARTERS

Add: 4/F, No.1 Bldg. Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone, Shenzhen 518057, P.R.China

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