

# KSG Series

## Grid Tied Solar Inverter

1KW / 2KW / 3KW / 5KW



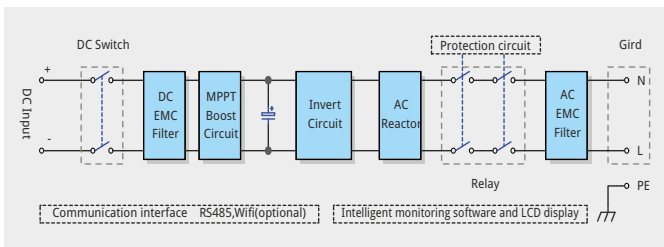
### Design :

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

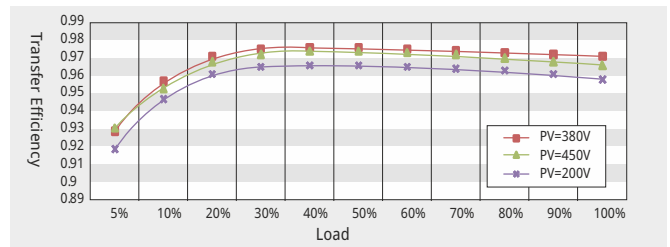
### Certification :

- TUV
- CE
- VDE0126
- EN50538
- PEA/MEA
- IEC62109
- IEC61000
- IEC61727
- IEC61683
- IEC62116

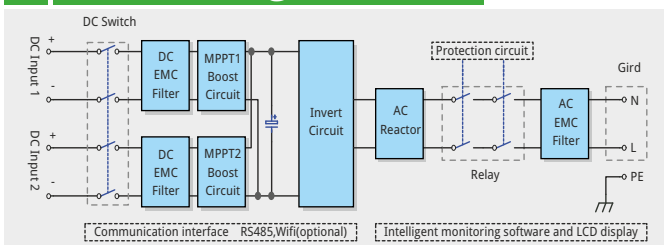
### ▶ Circuit diagram 1~3KW



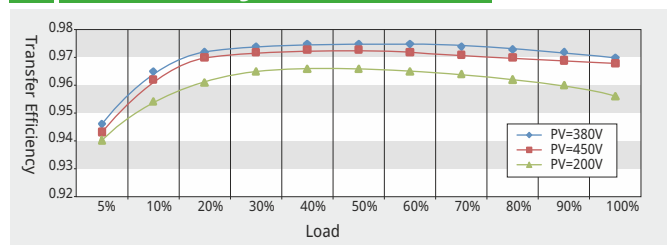
### ▶ Efficiency curve 1~3KW



### ▶ Circuit diagram 5KW



### ▶ Efficiency curve 5KW



## ► Technical Specifications of KSG Series 1~5KW

MODEL	KSG-1K-SM	KSG-2K-SM	KSG-3K-SM	KSG-5K-DM
<b>INPUT (DC)</b>				
Max. DC Power	1150W	2100W	3100W	5200W
Max. DC / Nominal DC Voltage	500V DC / 380V DC			
MPPT Voltage Range	100~490V DC			
Full Load MPPT Voltage Range	105-400V DC	190-400V DC	240-400V DC	200-400V DC
Min./Start DC Voltage	120 / 130V DC			120 / 150V DC
Number of MPPT Trackers	1			2
String per MPPT Tracker	1			
Max. DC Power per MPPT Tracker				3000W
Max. Input Current per MPPT Tracker	11 A		13 A	
<b>OUTPUT (AC)</b>				
Max. AC Output Power	1000W	2000W	3000W	5000W
Nominal AC Voltage	230V AC			
AC Voltage Range	230V AC ±20%			
Nominal AC Grid Frequency	50 / 60Hz			
AC Grid Frequency Range	50 / 60Hz (±5Hz)			
Max. Output Current	4.5 A	9 A	14 A	22 A
Power Factor (cos φ)	1			Lagging & Leading 0.9
THDI	<3%			
AC Connection	LN + PE			
Topology	Transformer-Less			
<b>EFFICIENCY</b>				
Max. Efficiency	96.5%	97.6%		97.5%
Euro Efficiency	96%	97%		
MPPT Efficiency	99.90%			
Consumption: Standby / Night	<5W / <0.2W			
<b>Protection Devices</b>				
AC Leakage Current Fault Protection	Yes			
Ground Fault Protection	Yes			
Anti-Islanding Protection	Yes			
DC Over-Voltage Protection	Yes			
DC Surge Protection	Yes			
AC Surge Protection	Yes			
DC Reverse-Polarity Protection	Yes			
<b>PHYSICAL</b>				
Dimension (WxLxD) in mm	264x326x127			329x466x149
Weight in Kg	7.6	8.1	8.6	15.5
<b>ENVIRONMENT</b>				
Operating Temperature Range	-25°C ~ +60°C			
Noise Emission (Typical)	≤ 25dB			
Cooling Type	Natural Cooling			
Protection Rating	IP 65			
<b>FEATURES</b>				
LCD Display	Yes			
Interfaces	RS-485 / WiFi (External)			
Optional	DC Switch / WiFi			

\*Specifications are subject to change without prior notice.