



Omega Single Phase String-type Inverter series is the ideal solution for roof-top solar system solution. With the characteristics of high efficiency and reliability, compact design and easy installation, it is applicable to distribute power generation system.

#### Features

- Transformer-less design and Compact in Size
- Aluminum housing with IP65 industrial protection.
- Over 25 years of life time
- MPP efficiency > 99%
- Maximum efficiency > 97%
- Mimic LCD display
- Optional Monitoring Software provided offers operational status and electricity generated data.

## Omega KSG 1.5-6K Series

KSG-1.5K | KSG-2K | KSG-3K | KSG-4K  
KSG-4.2K | KSG-5K | KSG-6K

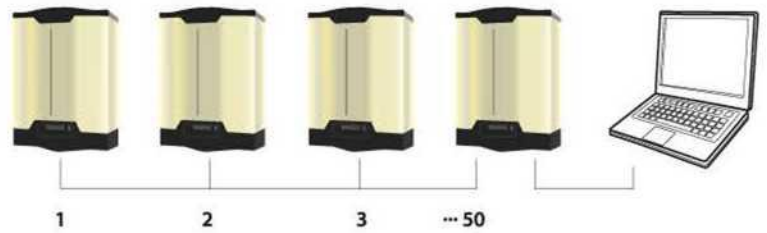
## IP65 Protection with Aluminium Housing



With highest industrial IP65 dust/water-proof protection, the Omega KSG string inverter series is for both indoor and outdoor applications.



The Omega KSG String inverter series can work in parallel by simply connecting via RS485 ports.



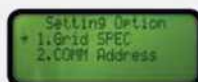
KGS-(1K5-4K)

KGS-(4K2-6K)

## Omega KSG 1.5-6K Series

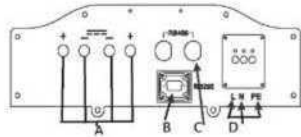
KSG-1.5K | KSG-2K | KSG-3K | KSG-4K  
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### Mimic LCD display



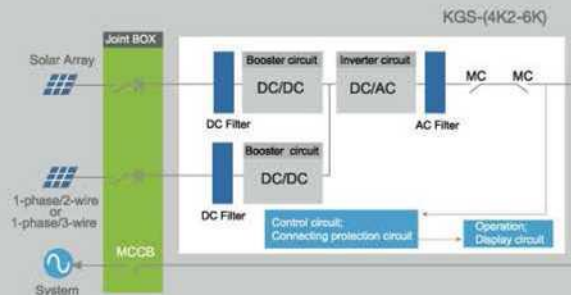
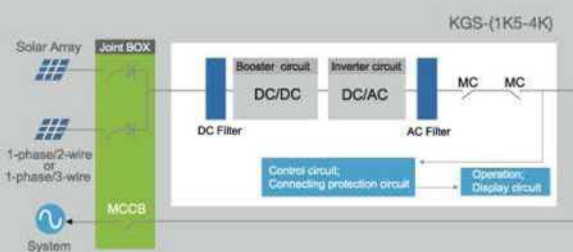
The LCD display provides user-friendly menu control and delivers messages to manage, configure, control and diagnose the inverter directly. The above statuses may be presented easily on the screen, such as System information, parameters in Normal Mode, Standby Mode and Fault Mode.

With optional Monitoring Software connecting via RS232/RS485 communication port, all operational status and electricity generated data can be monitored and stored in the computer.



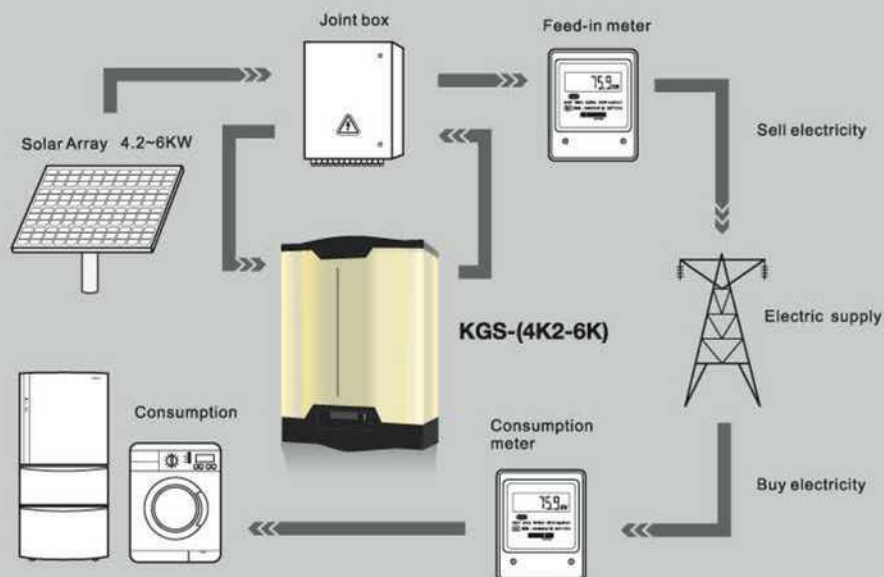
A	Connectors for DC inputs
B	RS232 Communication Interface
C	RS485 Communication Interface
D	Connectors for AC Output

The Omega KSG string inverter series is a special type of inverter that converts direct current(solar) electricity into alternating current(AC) electricity and feeds it into an existing electrical grid.



The Omega KSG string inverter series is a grid tie inverter, which is designed for residential and commercial applications.

If you're looking for a way to save money on your power bill, increase the value of your home or office, and reduce your carbon footprint without losing the security of the public power grid, then Omega KSG string inverter series is the ideal choice for you.



## Omega KSG Series Technical Specifications

Model	KSG-1.5K	KSG-2K	KSG-3K	KSG-4K	KSG-4.2K	KSG-5K	KSG-6K
<b>DC Input</b>							
Max. Input Power	1800Wp	2400Wp	3800Wp	4300Wp	4600Wp	5400Wp	6400Wp
Rated Voltage	DC380Vdc						
Max. DC Voltage	550Vdc						
Operation Voltage	DC120V-DC500V						
Max. MPPT Voltage range	DC150-DC540Vdc						
Number of MPP Tracker	1			2			
Strings per MPP Tracker	2			1			
No. of Input connection/Max. input Current for each connection	1/8.5A	1/11.3A	1/17A	1/20.7A	2/17A	2/17A	2/17A
<b>AC Output</b>							
Nominal AC Power	1500W	2000W	3000W	3650W	4200W	5000W	6000W
Max. AC Power Output	1650W	2200W	3300W	4000W	4200W	5000W	6100W
Normal AC Voltage	220/230/240Vac						
AC Voltage Window	184 ~ 264V						
Phase/Wire	1 phase/2 wires(LNG)						
Output Frequency Range	50 or 60Hz $\pm$ 5Hz						
Max. Output Current	8.3A	11.0A	16.5A	20.1A	21A	25A	30A
Rated Output Current(rms)	8.5A	8.7A	13A	15.9A	21A	25A	28A
Power Factor(cos $\phi$ )	>0.99						
Current THD(THDi)	<3%						
Islanding Protection Detection	Active & Passive						
<b>System</b>							
Topology	High Frequency PWM Transformer-less						
Consumption(standby/night)	<5W/<0.2W			<7W/<0.2W			
<b>Efficiency</b>							
Max. Efficiency	>97.4%	>97.4%	>97.4%	>97.4%	>97.3%		
Euro Efficiency	>96.7%	>96.7%	>96.7%	>96.7%	>96.9%		
MPPT Efficiency	99.5%						
IP Protection Degree	IP65						
Cooling	Natural Cooling				Forced Air Cooling		
<b>Protection</b>							
DC reverse-polarity Protection	-						
All-pole fault current monitoring unit	yes						
Ground fault monitoring	yes						
<b>Environment</b>							
Environmental Protection	IP65						
Operating Temperature	-20°C~+60°C						
Relative Humidity	<95% RH Maximum, Non-condensing						
Altitude	<2000m without de-rating						
Noise Level	<25dB				<40dB		
Communication Interface	RS232/RS485						
<b>Mechanical Characteristics</b>							
Dimension(WxHxD)mm	353x605x182				353x660x182		
Overall Weight(KG)	22	26	28	28	30	32	
<b>Safety Conformance</b>							
Quality Assurance	ISO9001 certified						
EMC Standard	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN61000-3-2, EN61000-3-12, EN61000-3-3, EN61000-3-11						
Safety	VDE0128-1-1, EN50178, IEC62109, ENEL Guideline 2011, AS3100/4777....etc.						

Specifications subject to change without prior notice.

\*KSG3KW tested by Photon is based on MPPT range 180~440Vdc to aim euro/CEC efficiency at 96.1% and 96.6% respectively.