



Omega KSG SM/DM 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
- Harsh IP65 industrial protection.
- Provide Single and Double MPP Trackers for different application demands.
- Firmware is upgradable via RS232 port.
- Parallel up to 50 units via RS485 port
- Comply with latest VDE AR N4105 standard
- MPP efficiency > 99.9%
- Maximum efficiency > 97.5%
- Mimic LCD display
- Versatile Communication Interface options, Standard RS485, RS485/WiFi and Ethernet/WiFi may reach up to your utmost request.
- Monitoring Software provided offers operational status and electricity generated data.

Omega KSG SM / DM Series

KSG-1500SM | KSG-2000SM | KSG-3000SM | KSG-3600SM
KSG-3000DM | KSG-3600DM | KSG-4200DM | KSG-5000DM

Omega KSG SM/DM series Technical Specifications

Model	KSG-1500SM	KSG-2000SM	KSG-3000SM	KSG-3600SM	KSG-3000DM	KSG-3600DM	KSG-4200DM	KSG-5000DM
DC INPUT								
Nominal Input Power	1650Wp	2200Wp	3100Wp	3900Wp	3100Wp	3900Wp	4300Wp	5100Wp
Max. Input Power (±10~20%)	1800Wp	2400Wp	3300Wp	4000Wp	3300Wp	4000Wp	4600Wp	5500Wp
Rated Voltage	DC360Vdc							
Max DC Voltage	DC500Vdc				DC600Vdc			
Operation Voltage	DC150V-DC450Vdc				DC150V-DC500Vdc			
Max. MPPT Voltage range	DC150V-DC450Vdc				DC150V-DC500Vdc			
Number of MPP Tracker	1				2			
Strings per MPP Tracker	1		2		1		2	
DC Switch	Optional							
No. of input connection/Max. Input Current for each connection	1/9A	1/11A	1/17A	1/20A	2/9A	2/11A	2/13A	2/15A
AC Output								
Nominal AC Power	1500W	2000W	3000W	3600W	3000W	3600W	4200W	5000W
Max. AC Power Output	1650W	2200W	3100W	3700W	3100W	3700W	4300W	5100W
Nominal AC Voltage	240Vac							
AC Voltage Window	184V~264V							
Phase / Wire	Split Phase or 1 Phase / 3 Wires							
Output Frequency Range	50 or 60Hz ±5Hz							
Max. Output Current	9A	11A	15A	18A	15A	18A	21A	24A
Rated Output Current (rms)	6.5A	8.7A	13A	15.6A	13A	15.6A	18.3A	21.7A
Power Factor (cosθ)	1				0.9 leading - 0.9 lagging			
Current THD (THDi)	<3%							
Islanding Protection Detection	Active & Passive							
System								
Topology	High Frequency PWM Transformer-less							
Consumption (standby/night)	<5W/<0.2W				<7W/<0.2W			
Efficiency								
Max. Efficiency	>96.0%				>97.5%			
Euro Efficiency	>95.0%				>96.5%			
MPPT Efficiency	>99.9%							
IP Protection Degree	IP65							
Cooling	Natural Cooling							
Protection								
DC reverse-polarity Protection	-							
All-pole fault current monitoring unit	yes							
Ground fault monitoring	yes							
Environment								
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	RS485 standard, external WiFi or Ethernet device optional							
Mechanical Characteristics								
Dimension (WxHxD) mm	340x540x160		340x580x160		420x615x160			
Overall Weight (KG)	14.3		17		22		24.3	
Safety Conformance								
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	VDE0126-1-1, VDE AR N4105, EN50178, IEC62109, DK5940/ENEL Guideline 2011/CEI0-21 , G83/59/EEG2012, AS3100/4777....etc.							

Specifications subject to change without prior notice.



KSTAR