



Omega Three Phase Centralized Inverter Series is specially designed for large PV power station. It features with transformer-less design(transformer is optional), high efficiency and low cost and it is ideally for high performance of large PV power station with its high connectivity to medium voltage electric grid of various voltage levels.

#### Features

- More than 25 years of life time
- MPPT efficiency > 99%
- Max efficiency > 98.2%
- European efficiency > 97.5%
- Transformer-less design (transformer is optional)
- Fan-speed control design to minimize system power consumption and increase electricity generated.
- Night power consumption <10W
- Redundancy control circuits designed-in and over-size metalized film capacitors are used to guarantee its safe operation and system reliability.
- Reactive Power Adjustable
- Unique Low Voltage Ride Through(LVRT) function, anti-islanding and output abnormal voltage protection secures its safe operation.
- Advanced DSP Control makes data more accurate
- A variety of communication interfaces
- Perfect protection functions
- Large-scale LCD Display for easy maintenance, message & status read-out, etc.
- Modular design for easy swapping and replacement

## Omega GSL Series

GSL0100 | GSL0100T | GSL0250  
GSL0250T | GSL0500 | GSL0630

## Omega GSL Series Technical Specifications

Model	GSL0100	GSL0100T	GSL0250	GSL0250T	GSL0500	GSL0630
<b>DC Input</b>						
Max. Input Power	110KWp	110KWp	275KWp	275KWp	550KWp	690KWp
Rated Voltage	576Vdc					
Max DC Voltage	900Vdc(open circuit voltage under the lowest temperature)					
Max. MPPT Voltage range	450 ~ 850Vdc					
Number of DC Inputs	2		6		12	
Max. Current per DC Input			100A		120A	
Max. Input Current	200A		600A		1200A	1440A
<b>AC Output</b>						
Nominal AC Power	100KW		250KW		500KW	630KW
Max. AC Power Output	110KWp		275KWp		550KWp	690KWp
Normal AC Voltage	270V	400 V	270 V	400 V	270V	315 V
AC Voltage Window	(1±15%) x Normal AC Voltage					
Phase/Wire	3 phases 3 wires + grounding	3 phases 4wires + grounding	3 phases 3 wires + grounding	3 phases 4wires + grounding	3 phases 3 wires + grounding	
Output Frequency Range	50±2Hz settable(Default: -1Hz~ +1Hz)					
Max. Output Current	225A	151A	562A	379A	1124A	1213A
Rated Output Current(rms)	214A rms	144 A rms	535A rms	361A rms	1070A rms	1155A rms
Power Factor(cosθ)	>0.99 (-0.95~0.95 adjustable)					
Current THD(THDi)	<3%					
<b>System</b>						
Topology	Transformer-less					
Consumption(standby/night)	<10W					
<b>Efficiency</b>						
Max. Efficiency	>98.2%	>97.5%	>98.3%	>97.6%	>98.5%	>98.6%
Euro Efficiency	>97.7%	>96.9%	>97.8%	>97.0%	>98.0%	>98.1%
MPPT Efficiency	>99%					
Cooling concept	Forced cooling					
<b>Environment</b>						
Environmental Protection Degree	IP20					
Operating Temperature	-30°C~+50°C					
Relative Humidity	<95%(non-condensing)					
Altitude	2000m					
Noise Level (dB)	60			65		
<b>Communication Interface</b>						
Communication Port	RS485					
<b>Mechanical Characteristics</b>						
Dimensions(WxHxD)mm	800x1850x945		1200x1850x945		2370x1850x945	2894x1850x945
Overall Weight(Kg)	400	800	760	1350	1370	1550

Specifications subject to change without prior notice.

# KSTAR

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