



GSL series of 250kW and 500kW family of concentrated grid-tied photovoltaic inverters are suitable for use in large photovoltaic power stations.

The design is transformerless based and it utilizes conversion process to ensure minimal losses and maximum reliability.

They provide the necessary conversion and allow economic in-feed of solar energy into conventional power grids. With its cost effective and reliable design, we aim to provide users a rewarding experience over the entire system life-cycle

Features

- Developed for large photovoltaic power station
- Adopts non-transforming structure
- With high-inversion efficiency and lower costs
- Suitable for large photovoltaic power station to connect with different medium voltage grid through relative boosting transformers
- Lifespan: longer than 25 years
- MPPT efficiency: >99%
- European efficiency: >97.3%
- Transformerless design
- Adjustable reactive power
- Low-voltage ride through
- LCD display
- Complete protection
- Configured Ethernet/RS232/RS-485 interface

Model	GSL0100TL	GSL0250TL	GSL0500TL
DC Input Parameters			
Max. Input Power (KW)	110	275	550
Input Operating Range (Vdc)	450 to 900; Absolute Max @ 1000		
MPPT Operating Range (Vdc)	450 to 850; Nominal @ 576		
Max. No. of Inputs	6	12	24
Max. Branch Current (A)	120		
Max. Input Current (A)	206	515	1030
MPPT Efficiency	> 99%		
AC Output Specifications			
Rated Output Power (KW)	100	250	500
AC Output Type	3P, 3-wire + earth	3P, 3-wire + earth	3P, 3-wire + earth
Nominal Output Voltage (Vdc)	270		
Output Voltage Range (Vdc)	270 (-10% to +15%), adjustable $\pm 5\%$, $\pm 10\%$, $\pm 15\%$, $\pm 20\%$		
Output Frequency	50 \pm 2Hz (fixed); 49Hz to 51Hz (adjustable)		
Rated Output Current (A rms)	214	535	1070
Power Factor (cos Φ)	>0.99 (Adjustable -0.95 to +0.95)		
Total Current Harmonic Distortion (THDi)	< 3%		
Current of DC	< 0.5%		
System Parameters			
Time of Recovering network	20s to 300s (adjustable)		
Peak Efficiency (%)	> 98%		
Euro Efficiency (%)	> 97.3%		
Other Parameters			
Night Time Losses (W)	< 10		
Environmental Protection	IP20		
Relative Humidity (Non-Condensing)	< 95%		
User Interface	LCD Screen		
Communication Port	RS485		
Dimensions (WxHxD) mm	800 \times 1850 \times 945	1200 \times 1850 \times 945	2370 \times 1850 \times 945
Total Weight (kg)	400	760	1370
Total Packaged Weight (kg)	460	860	1570
External power supply supportable	Yes		
Auxiliary power supply	PV and AC grid		
Certifications			
EMC Standard	EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12, IEC/EN 61000-6-4		
Safety Standard	IEC 62109-1, 2010, IEC 62116-2008, GB/T 19939-2005, CNCA/CTS 0006-2010		
Grid Certification	CNCA/CTS 0004-2009		