GESOLAR
Build and Beyond

GES-15KTL/20KTL



On Grid PV Inverters Without Transformer

High efficiency
- "True" three-phase balanced output
- Lower installation cost than installing 3 single-phase inverters

Flexibility
- MPP tracking voltage: 400 V ~850 V
- More flexibility in module selection

Easy Installation
- Integrated handles which allow easy installation for 2 persons

Certifications
- VDE0126-1-1, RD1663/RD661and ENEL2010(DK5940)

GESOLAR, Sainty International Group
Building C, 21 Ruanjian Avenue, Nanjing, Jiangsu 210012, People's Republic of China

Sainty International Group
since 1974

Specifications

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Type	GES-15KTL	GES-20KTL
Input Data (DC)		
Nominal input power	15.75 KW	21 KW
Maximum input power	17.3 KW	23.1 KW
MPP voltage range	400 ~ 850 VDC	
Maximum input voltage	850 VDC	
Maximum input current	43.2 A (2x21.6 A)	57.8 A (2 x 28.9 A)
Number of input strings	2	
Number of MPPT	2*	
Output Data (AC)		
Main voltage / range	400 V x 3 / 320 V - 460 V	
Grid frequency	50 Hz/60 Hz	
Main frequency / range	50/45-55 Hz; 60/55-65 Hz	
Nominal output power	15 kW	20 kW/19.99 kW**
Maximum output power	16.5 kW	22 kW
Nominal output current	21.8 A	29 A/28.99 A**
Maximum output current	28.2 A	31.9 A/31.88 A**
Waveform	True sine	
Power factor	1	
Total harmonic distortion	< 5%	
Phase	3-phase balanced output	
Efficiency		
Maximum efficiency	96.5%	97.0%
European efficiency	95.5%	96.0%
Efficiency at 20% load	> 96.0%@20% load	
Operating (standby) consumption	< 36W	
Night consumption	< 1W	
Environment		
Operating temperature range	-25°C ~60°C	
Maximum full power operating temperature without derating	50°C	45°C
Relative humidity	Maximum 95%	
Mechanical		
Outdoor enclosure	IP55	
Cooling	Controlled forced ventilation	
Built-in disconnect switch	Yes	
DC connection	Screw terminal	
Inverter weight	71 kg	
Noise level	< 50 dB(A)	< 55 dB(A)
Dimensions (H*W*D)	890.5 x 751 x 245.5 mm	
Shipping dimensions (H*W*D)	1100 x 880 x 560 mm	
Features		
Built-in transformer	no	
Communication	RS232 and RS485	
Display	LCD	
Anti-theft protection	yes	
Certifications	VDE0126-1-1, RD1663/RD661, ENEL2010(DK5940)	
Warranty	5 years(10 years optional)	

*The default configuration has two MPP trackers. This product could be configured that both input strings are connected in parallel to use one MPP tracker.
**This configuration of 19.99 kW power rating is specific to ENEL2010(DK5940).

GESOLAR, Sainty International Group
Email: gesolar@saintygroup.com www.gesolar-power.com www.saintygroup.com
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