

GES-3K3TL/3K8TL/4K6TL



On Grid PV Inverters Without Transformer

■ High efficiency

- Three independent MPP trackers
- Reduction of mismatching and partial shading losses

■ Flexibility

- MPP tracking voltage: 100 V ~450 V
- More flexibility in module selection

■ Excellent performance at high temperature

- Without derating at temperature up to 55°C

■ Certifications

- VDE0126-1-1, RD1663/RD661, ENEL2010(DK5940) and AS4777

Specifications

Type	GES-3K3TL	GES-3K8TL	GES-4K6TL
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Input Data (DC)			
Maximum input power	4500 W	5000 W	6000 W
MPP voltage range	100 VDC -450 VDC		
Maximum Input voltage	500 VDC		
PV start voltage	130 VDC		
Maximum input current	10 A per input port		
Number of input	2	2	3
Number of MPPT	1-2	1-2	1-3

Output Data (AC)			
Grid voltage (nominal)	230 VAC		
Grid frequency	50 Hz/60 Hz		
Nominal output power	3300 W	3800 W	4600 W
Maximum output power	3800 W	4400 W	5100 W
Nominal output current	14.35 A	16.52 A	20.0 A
Maximum output current	16.52 A	19.13 A	22.0 A
Maximum grid feedback current	0 A		
Waveform	True sine		
Power factor	> 0.99 @ nominal power		
Total harmonic distortion	< 3%		
DC component	< 0.5%		
Phase	Single		

Efficiency			
Maximum efficiency	96.3 %	96.3 %	96.2 %
European efficiency	95.2 %	95.1 %	95.4 %
Night consumption	< 0.5 W		

Environment	
Operating temperature range	-20°C ~ 55°C
Maximum full power operating temperature without derating	55°C
Relative humidity	Maximum 95 %

Mechanical			
Outdoor enclosure	IP65		
Cooling	Controlled forced ventilation		
DC connection	MC4		
Inverter weight	23.5 Kg	23.5 Kg	24 Kg
Dimensions (H*W*D)	580 x 422 x 182 mm		
Shipping dimensions (H*W*D)	670 x 510 x 310 mm		

Features	
Communications	RS232 and RS485
Built-in disconnect switch	Yes
Display	LED / LCD
Certifications	VDE0126-1-1, RD1663/RD661, ENEL2010(DK5940), AS4777
Warranty	5 years(10 years optional)