

Products

SE Series PV Inverter for Residential Use



SE Series Single Phase On-Grid PV Inverter for Residential Use

Intelligent, Reliable & Ultimately Efficient

Application: Ideal for the residential rooftop PV power stations



Superior Efficiency
for Increased Profitability

- ◆ Excellent power generation performance, with up to 98% maximum conversion efficiency and 97.4% against the European efficiency standard
- ◆ High MPPT precision to significantly increase the solar panel utilization
- ◆ Multiple independent MPPT for flexible adaptation to various installation environments and minimal panel loss
- ◆ Super-wide voltage range (70V-580V) to maximize the daily power generation



High Reliability
with Reduced Investment

- ◆ Integrated aluminum die-casting case, providing thorough protection at IP65 level
- ◆ Super adaptability for poor rural power grid
- ◆ Key electrical components selected from international brands to guarantee the long product service life
- ◆ Natural cooling design to ensure reliable service life under harsh environment



User-friendly Installation
and Intelligent Maintenance

- ◆ Standard wireless trouble-shooting interface through smart Bluetooth connectivity
- ◆ AC/DC connector dedicated for PV inverters for easy installation
- ◆ Intelligent maintenance with designed APP/WEB for remote setting and system upgrading
- ◆ Incredibly light weight (only 12.8KG for SE 5kW) to support installation by a single person

Model	SE 4KTL	SE 5KTL
Efficiency		
Max. Efficiency	98.00%	98.00%
European Efficiency	97.40%	97.40%
Input(DC)		
Max. DC Usable Power	4,400W	5,500W
Max. Input Voltage	600V	600V
Max. Input Current	20.8A (2*10.4A)	20.8A (2*10.4A)
Min. Operating Voltage/Start Input Voltage	70V/90V	70V/90V
MPPT Operating Voltage Range	70V-580V	70V-580V
MPPT Operating Voltage Range (Full-Load)	200V-520V	240V-520V
Max. Number of PV Strings	2	2
No. of MPPTs	2	2
Output(AC)		
Rated AC Active Power	4,000W	5,000W
Max. AC Apparent Power	4,200VA	5,250VA
Max. AC Active Power (PF=1)	4,200W	5,250W
Max. AC Output Current	19.0A	23.6A
Rated AC Voltage	220V/230V, L+N+PE	220V/230V, L+N+PE
AC Voltage Range*	160-300Vac (adjustable)	160-300Vac (adjustable)
Rated Grid Frequency	50Hz/60Hz	50Hz/60Hz
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz	45Hz-55Hz/55Hz-65Hz
THDI	<3%	<3%
DC Current Injection	<0.5%In	<0.5%In
Power Factor	> 0.99 rated power (adjustable 0.8 LG - 0.8 LD)	
Protection		
DC switch	optional	
Anti-islanding protection	support	
AC overcurrent protection	support	
AC short circuit protection	support	
DC reverse connection	support	
Surge Arrester	AC Type III	
Insulation detection	support	
Leakage current protection	support	
General		
Topology	Transformerless	
IP Rating	IP65	
Cooling	Natural cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<25dB	
Dimensions (W*H*D)	335mm*426mm*125mm	
Weight	12.8KG	
HMI & COM		
Display	Blue-tooth & LED indicator, LCD(optional)	
Communication	RS485(optional), WIFI (optional), GPRS(optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 EN 61000-3-11, EN 61000-3-12	
Grid Code	VDE-AR-N 4105, IEC 61727, AS4777, G83	

Remarks The range of output voltage and frequency may vary depending upon different grid codes.
Specifications are subject to change without advance notice.