

SE Series Single Phase On-Grid PV Inverter for Residence 4KTL-5KTL

Smart, Reliability & High Efficiency

Apply to:

Residential rooftop distributed PV power station

Residential rooftop PV power station for "Aid-the-Poor" program

Production Features:

High Efficiency & Higher Yield Rate

- ✓ Max efficiency 98.0%, European efficiency 97.4%, excellent performance.
- ✓ High intelligent MPPT technology, promoting efficiency of each module.
- ✓ Various sets of independent MPPTs, perfectly compatible with different situations of installation areas , preventing the loss due to bad configuration of modules effectively.
- ✓ Wide input voltage range(70V-580V) to maximize operation time and power generated throughout the day.

Safety, Reliability & Lower Investment

- ✓ Die-cast aluminum enclosure to ensure that real protection rating of IP65 for boh indoor and outdoor application.
- ✓ Perfectly compatible with different power grid conditions, suitable for low power grid at rural areas.
- ✓ Choosing high quality materials to ensure long using period of whole unit.
- ✓ Natural convection cooling technology to ensure reliable using period in high temperature situations.

Easily Installation & Smart Operation and Maintenance

- ✓ User-friendly communication interface with standard bluetooth, indicating and solving different troubles.
- ✓ Pluggable AC/DC connectors designed for PV applications make installation so easy.
- ✓ Using APP/WEB for remote control and remote firmware upgrade, smart operation and maintenance.
- ✓ The lightest PV inverter in the industry with the smallest volume(12.8kg for 5KW), one worker can install easily.

Model	SE 4KTL	SE 5KTL
Efficiency		
Max. Efficiency	98.00%	98.00%
European Efficiency	97.40%	97.40%
Input(DC)		
Max. Input 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	90V	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*	180V-242V	180V-242V
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
Adjustable Power Factor	> 0.99 Rated power (adjustable range 0.8 lead - 0.8 hysteresis)	
Protection		
Input DC switch	optional	
Anti-islanding protection	support	
AC overcurrent protection	support	
AC short circuit protection	support	
DC reverse connection	support	
Anti-surge protection	support	
Insulation resistance 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	
Communication	RS485(optional), WIFI (optional), GPRS(optional)	
Certification		
Safety	IEC62109-1, IEC62109-2, NB/T32004	
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	
	EN 61000-3-11, EN 61000-3-12	
Grid Code	NB/T32004, VDE-AR-N 4105, IEC 61727, AS4777	

Remarks: The range of output voltage and frequency may vary depending upon different grid codes.

Specifications are subject to change without advance notice.