

# SE Series Three Phase On-Grid PV Inverter for Residence

## 6KTL-15KTL

### Smart, Reliability & High Efficiency

Apply to:

Residential rooftop distributed PV power station

Production Features:

High Efficiency & Higher Yield Rate

- ✓ Max efficiency 98.4%, European efficiency 98.0%, 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(160V-850V) to maximize operation time and power generated throughout the day.
- ✓ 120% over-configuration capacity, 110% overload capacity, promoting yield rate of the investment.

Safety, Reliability & Lower Investment

- ✓ Die-cast aluminum enclosure to ensure real protection rating of IP65 for both indoor and outdoor application.
- ✓ Perfectly compatible with different power grid conditions, suitable for low power grid at rural areas.
- ✓ It is reliable to choose multiple communication options for monitoring, mostly decrease the cost of monitoring system.
- ✓ 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.
- ✓ Auto trouble detection for strings to promote the speed of operation and maintenance.
- ✓ One function key to start auto detection and adjustment for on-grid situations, easy-accessible installation and adjustment for the unit, saving time and effort.
- ✓ 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(21.8kg for 15KW), one worker can install easily.

Model	SE 6KTL	SE 8KTL	SE 10KTL	SE 12KTL	SE 15KTL	
<b>Efficiency</b>						
Max. Efficiency	98.20%		98.40%			
European Efficiency	97.80%		98.00%			
<b>Input(DC)</b>						
Max. Input Power	7,200W	9,600W	12,000W	14,400W	18,000W	
Max. Input Voltage			1000V			
Max. Input Current	2*11A			(2*11A+11A)		
Min. Operating Voltage	200V					
MPPT Operating Voltage Range	160V-850V					
MPPT Operating Voltage	300V-800V	380V-800	470V-800	380V-800	470V-800	

Range(Full-Load)		V	V	V	V	
Max. Number of PV Strings	2(1/1)			3(2/1)		
No. of MPPTs	2					
<b>Output(AC)</b>						
Rated AC Active Power	6,000W	8,000W	10,000W	12,000W	15,000W	
Max. AC Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	
Max. AC Active Power(PF=1)	6,600W	8,800W	11,000W	13,200W	16,500W	
Max. AC Output Current	10A	13A	16A	19A	23A	
Rated AC Voltage	380V, 3W+N+PE					
AC Voltage Range*	340V-440V					
Rated Grid Frequency	50Hz/60Hz					
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz					
THDI	<2%					
DC Current Injection	<0.5%In					
Adjustable Power Factor	> 0.99 Rated power (adjustable range 0.8 lead - 0.8 hysteresis)					
<b>Protection</b>						
Input DC switch	support					
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					
<b>General</b>						
Topology	Transformerless					
IP Rating	IP65					
Cooling	Natural cooling					
Operating Temperature Range	-25℃-60℃					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Noise	<25dB					
Dimensions (W*H*D)	385mm*490mm*190mm					
Weight	19.8Kg			21.8Kg		
<b>HMI &amp; COM</b>						
Display	Blue-tooth & LED indicator, LCD(optional)					
Communication	RS485, Ethernet(optional), WIFI(optional), GPRS(optional)					
<b>Certification</b>						
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					

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

Specifications are subject to change without advance notice.