SE Series Three Phase On-Grid PV Inverter for Commerce 50KTL-60KTL

Safety, High Efficiency, Intelligence & Friendly Communication

Apply to:

Distributed PV power station for village-level "Aid-the-Poor" program

Commercial rooftop distributed PV power station

Industry factory distributed PV power station

Production Features:

High Efficiency, Higher Yield Rate

- ✓ Max efficiency 99.0%, European efficiency 98.5%.
- ✓ Smart HE（High Efficiency）technology，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.
- ✓ 120% over-configuration capacity, 110% overload capacity, promoting yield rate of the investment.

Safety, Reliability & Lower Investment

- ✓ Most higher power density, priority choice for medium and large commercial & industrial power station.
- ✓ It is reliable to choose mutiple communication options for monitoring, mostly decrease the cost of monitoring system.
- ✓ Choosing high quality materials to ensure long using period of whole unit.
- ✓ The control system will adjust according to actual situation that there is power or not. Providing " Zero Voltage Ride Through" technology, supporting for reqirements of grid accessing.
- ✓ PID module inside to solve attenuation loss of each module.

Easily Installation & Smart Operation and Maintenance

- ✓ User-friendly communication interface with standard bluetooth, indicateing and solving different troubles.
- ✓ Auto trouble detection for up to 12 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.
- ✓ Die-cast aluminum enclosure, the weight is lower than 60kg, two workers can install easily.
- ✓

Model	SE 50KTL	SE 60KTL
Efficiency		
Max. Efficiency	99.00%	99.00%
European Efficiency	98.50%	98.50%
Input(DC)		
Max. Input Power	60,000W	72,000W
Max. Input Voltage	1100V	1100V
Max. Input Current	110A (33/33/22/22)	132A (33/33/33/33)
Min. Operating Voltage	250V	250V
MPPT Operating Voltage Range	200V-950V	200V-950V

MPPT Operating Voltage Range(Full-Load)	540V-850V	540V-850V
Max. Number of PV Strings	10(3/3/2/2)	12(3/3/3/3)
No. of MPPTs	4	4
Output(AC)		
Rated AC Active Power	50,000W	60,000W
Max. AC Apparent Power	55,000VA	66,000VA
Max. AC Active Power(PF=1)	55,000W	66,000W
Max. AC Output Current	76A	92A
Rated AC Voltage	380V, 3W+N+PE	380V, 3W+N+PE
AC Voltage Range*	340V-440V	340V-440V
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	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	
PID	optional	
Intelligent reactive power regulator	optional	
General		
Topology	Transformerless	
IP Rating	IP65	
Cooling	Natural cooling	
Operating Temperature Range	-25℃-60℃	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<45dB	
Dimensions (W*H*D)	855mm*555mm*275mm	
Weight	60Kg	
HMI & COM		
Display	Blue-tooth & LED indicator, LCD(optional)	
Communication	RS485, Ethernet(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	

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

Specifications are subject to change without advance notice.