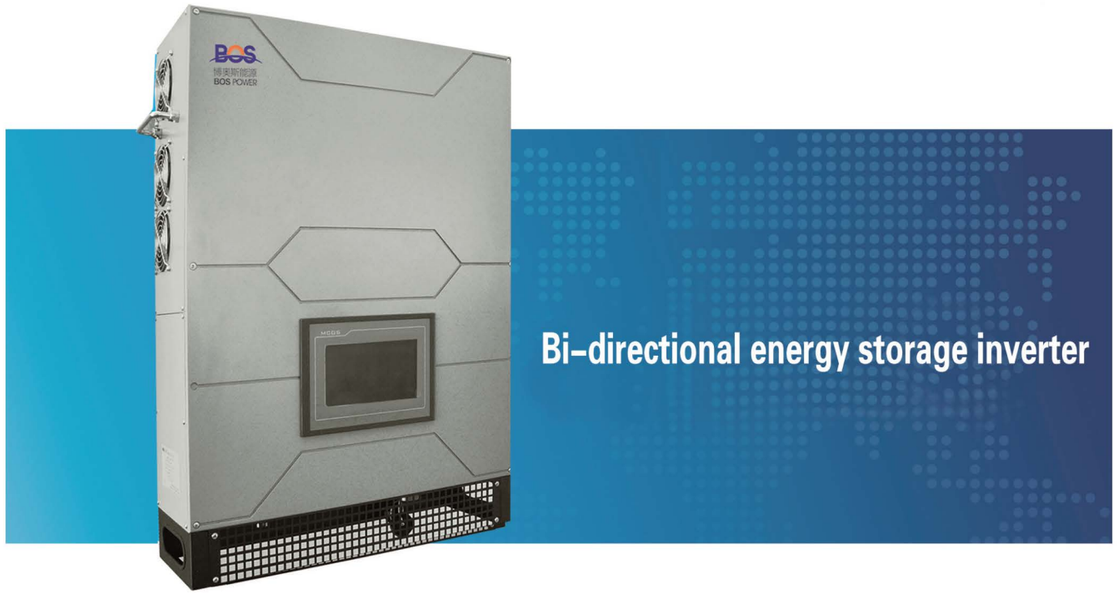
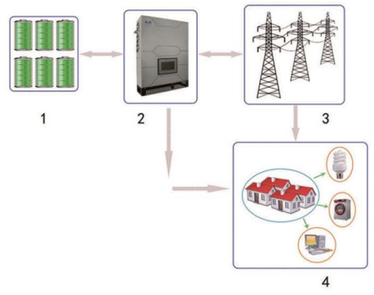


Product description

BOS POWER energy storage products and system solutions bring light to areas without electricity and electricity, and realize smart power supply and demand deployment, so that electricity can generate greater value. The system is aimed at three-phase energy storage system, which can realize grid-connected power generation, off-grid inverter, and city power reverse charging function; if the grid is powered off, the energy storage system can be automatically switched to the off-network working mode to ensure uninterrupted power supply.

- Power peak cutting and valley filling,meet customer dynamic needs,
- Smooth output power and increase grid acceptance ratio,
- Ensure the safety of electricity use.



Performance characteristics

- 32-bit DSP (digital processor TI2812) + ARM (touch screen master chip) platform, touch screen display and operation, convenient for field operation and parameter setting; DSP control core driver, ARM realizes display, communication and other peripheral functions, improve power supply reliability.
- Seamlessly switch between grid-connected and off-grid to ensure uninterrupted power supply for important loads.(UPS)
- Support RS485, Ethernet communication, optional CAN to meet customer remote monitoring and other functions; can display AC and DC side voltage, current, working mode, operating status, fault information, etc., and can upload relevant data to the remote host computer through the communication interface, and it can start and stop the power supply and set the parameters through the upper computer.
- Three-phase four-bridge arm structure, with 100% unbalanced load
- Designed specifically for smart grids and smart microgrids, accepting grid dispatching, cutting peaks and filling valleys
- It can meet the requirements of different energy storage forms such as lead-acid batteries, lithium batteries, super capacitors and vanadium batteries, and has a wide range of applications.

Technical Data Sheet

Model	BNSX–10KTL	BNSX–30KTL	BNSX–50KS	BNSX–100KS	BNSX–250KS	BNSX–500KS
Grid charging mode						
Rated grid voltage	380Vac					
Allowable grid voltage range	± 20%Un					
Allowable grid frequency range	50Hz/60Hz					
Total current waveform distortion rate(THD)	<3%					
Power factor	⩾0.99					
Switching mode	Seamless switching					
Independent grid mode						
Rated output voltage	380Vac					
Output voltage distortion	<3%					
Output frequency	50Hz/60Hz					
Output overvoltage protection	>120%Un					
Output undervoltage protection	<80%Un					
DC voltage range						
Maximum DC power	10kW	30kW	55kW	110kW	275kW	550kW
DC voltage range	200–700Vdc		400–800Vdc			600–900Vdc
DC current ripple	<3%					
System						
Maximum conversion efficiency	96.6%					
Operating temperature	–25~+50℃					
Relative humidity	0~95%， No condensation					
Noise	<65dB					
Protective function	Reverse polarity protection, short circuit protection, island effect protection, over temperature protection, overload protection, grounding protection and so on.					
Cooling method	Forced air cooling					
Protection level	IP20					
Display and communication						
Display	Touch screen					
Standard communication method	RS485/Ethernet(MODBUS protocol)					
Mechanical parameters						
Wide×Deep×High(mm)	631*228*770		800*600*2060	1000*800*2060	1800*1000*1900	1100*900*2060