
Grid-Connected Inverter

It is the core facility of solar power plant and wind turbine power plant. To sure the power plant can run stability, it highly require for the reliability of the grid-connected inverter. For the scurviness environment of the solar and wind turbine, the stability of DC supply is very bad, that more



require consummating the defensive function of grid-connected inverter and strong capability to resist all kinds of impact.

grid-connected inverter, with top-ranking technology, is developed by our experienced engineers. Since put into production for one year, has exported a great deal to Sweden, England and Germany. Up to now there still zero defects.

Grid-connected Inverter Characteristics:

- controlled by CPU, to keep the stability of the unit
- inverter grid-connected output, can follow up the utility grid in millisecond, and complete synchronization to the utility grid
- when utility grid test by inverter in three seconds is normal, grid-connected inverter start to work. make sure the inverter will

not damage by frequency wave

- it will lock the unit automatically in less than 10ms when the utility grid interrupted or over-voltage or under-voltage
- protection against short-circuit and overload
- output power invariableness.(normal DC voltage)
- when wind power or solar power shortage, DC voltage drop, grid-connected inverter output power will reduce. When DC over low achieve inverter DC protect point, inverter will automatically lock and stop work, when DC restores, it will start the unit automatically again.
- when wind power over-voltage(such as typhoon),or solar intensity over strong, DC overvoltage, inverter will automatically lock itself. when DC restores, inverter will start to work automatically again
- communication ports:RS232,RS485,USB(optional)
- DC to AC high transfer efficiency up to 90---96%



Model Explain: IL-S6KW1

IL: stand for grid-connected inverter

S: stand for inverter special for solar system,

W: stand for inverter special for wind power system

6KW: stand for inverter efficiency

1: stand for single phase

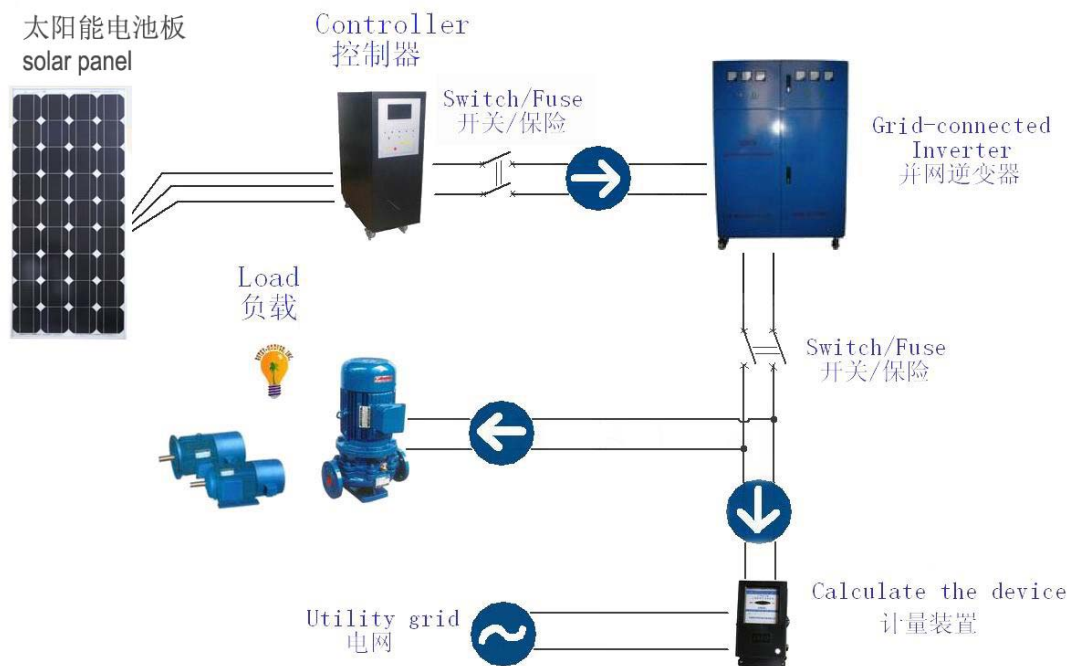
3:stand for three phases

Grid-Connected Inverter Special for Solar System:

Renewable energy resources solar grid system is use the PV modules produce energy, across grid-connecter inverter give feedback to utility grid directly, do not through the battery.

grid-connected inverter for Solar panel system

working principium:



Model	NB-S,NB-W Series					
Power range	1kw	2kw	3-5kw	10kw	20-30kw	50kw-200kw
DC voltage range	48v-120v	80v-250v	185v-300v	240-350v	300v-360v	600v-980v
Total Current waveform aberrance rate(THD)	≤3%					
Power factor	>0.99					
DC to AC transfer efficiency	90~95%					
Allowable electric net voltage range(AC)	175V~265V(single phase)					
	304V~450V(three phases)					
Allowable electric net frequency range	50/60Hz					
DC access type	Group terminal block+DC swithch					
AC access type	Group terminal block+AC swithch					
Night power expenditure	0W					
Communication ports	RS232,RS485,USB(optional)					
Protections	Protection against short-circuit,reverse					
	Polarity protection,lone-island domino					
	effect protection,protection against over-					
	load,grounding protection					
Operational environment temperature	-10 ℃~+40 ℃					
Electric net control	According to UL1741,IEEE-2000 standards					
Electromagnetism compatiblness	EN50081,PART1 EN50082,PART1					
Electromagnetism compatiblness	EN61000-3-2					
Utility grid test	DIN VDE126					