

# Energy Storage Hybrid Inverter (Low Battery Voltage)



## Flexible

- Wide input voltage range. Compatible with lead-acid or lithium-ion batteries or other battery.

## Grace

- Fashion appearance, light weight, smart operation.
- Natural cooling, low noise.
- IP65, wall mounted design, saving space.
- Touch screen LCD.

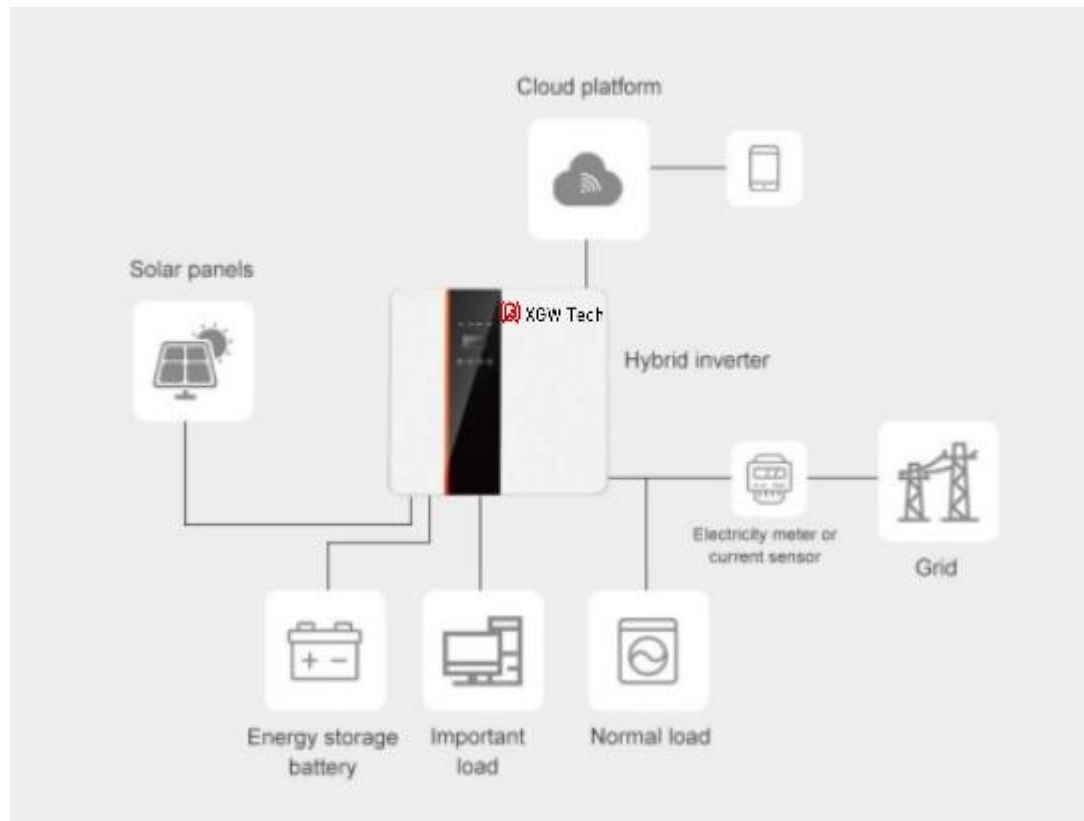
## Reliable

- Compatible anti counter flow function.
- Battery reverse connect protection.

## Advanced

- Intelligent energy management system for home.
- Power dispatching and demand side response management.
- Distributed virtual power station management.

## Product Topology



Model	NK-LB3000P1	NK-LB3600P1	NK-LB4000P1	NK-LB4600P1	NK-LB5000P1	NK-LB6000P1
<b>DC input</b>						
Start-up voltage	125V					
Max. PV voltage	550V					
PV voltage range	125V-550V					
MPPT range/nominal	125V-550V /360V					
Max. input current	14A/14A					
MPPT tracker/strings	2/1					
<b>AC output</b>						
Rated power w/va	3000VA/3000W	3680VA/3680W	4000VA/4000W	5000VA/5000W	5500VA/5000W	6000VA/6000W
Max. output current	13A	16A	17.4A	23A	23.9A	26A
Nominal voltage/range	230V /180Vac~280Vac					
Frequency	50 /60Hz					
PF	1(0.8lagging-0.8leading)					
THDI	<3 %					
AC output topology	L+N+PE					
<b>Battery</b>						
Battery voltage range	42~59V					
Max. charging voltage	58V					
Charge/discharge current	75A/75A			110A/110A		
Battery type	lithium /Lead-acid					
Deep of discharging	80%DOD/50%DOD					
Communication interface	CAN/RS485					
<b>Eps output</b>						
Rated power w/va	3000VA/3000W	3600VA/3600W	4000VA/4000W	5000VA/5000W	5500VA/5000W	6000VA/6000W
Rated voltage	230Vac					
Rated current	13A	16A	17.4A	23A	23.9A	26A
Rated frequency	50Hz					
Automatic switchover time	<20ms					
THDU	<2%					
Parallel operation	yes					
<b>General data</b>						
Battery chage/discharge	95.5%/95%					
DC max. efficiency	97.6%					
Euro efficiency	97%					
MPPT efficiency	99.9%					
Protection class	IP65					
Noise emission (typical)	<35dB					
Operation temperature	-25°C~+60°C					
Cooling	Natural					
Relative humidity	0~95% non-condensing					
Altitude	2000m					
Dimensions (WDXH)	550X200X515mm					
Weight	25kg					
Inverter topology	Without transformer					
Self-consumption	<3W					
<b>Features</b>						
Display	LCD					
Interface:rs485/wifi/lan /can/drm	yes /opt/opt/yes/yes					
Certificates	CE, TUV, VDE					