

Energy Storage Hybrid Inverter (UL Standard battery 48V)



Flexible

- The model covers 7.5kw -13KW, with unified appearance design.
- Wide battery input range, compatible with a variety of lithium batteries and lead-acid.

Grace

- Fashionable appearance, convenient wiring. IP65 design,
- natural cooling, external fan free design, low noise , improve the whole machine life.

Reliable

- Input and output lightning protection,PV arcing detection.
- Discharge at full power and disconnect the charger automatically when the battery is full.
- Off grid full power output, transient 1.5 times overload, soft start mode, with air conditioning, water pump and other loads.
- Insulation detection, leakage battery, ground fault detection, island protection to prevent electric shock.

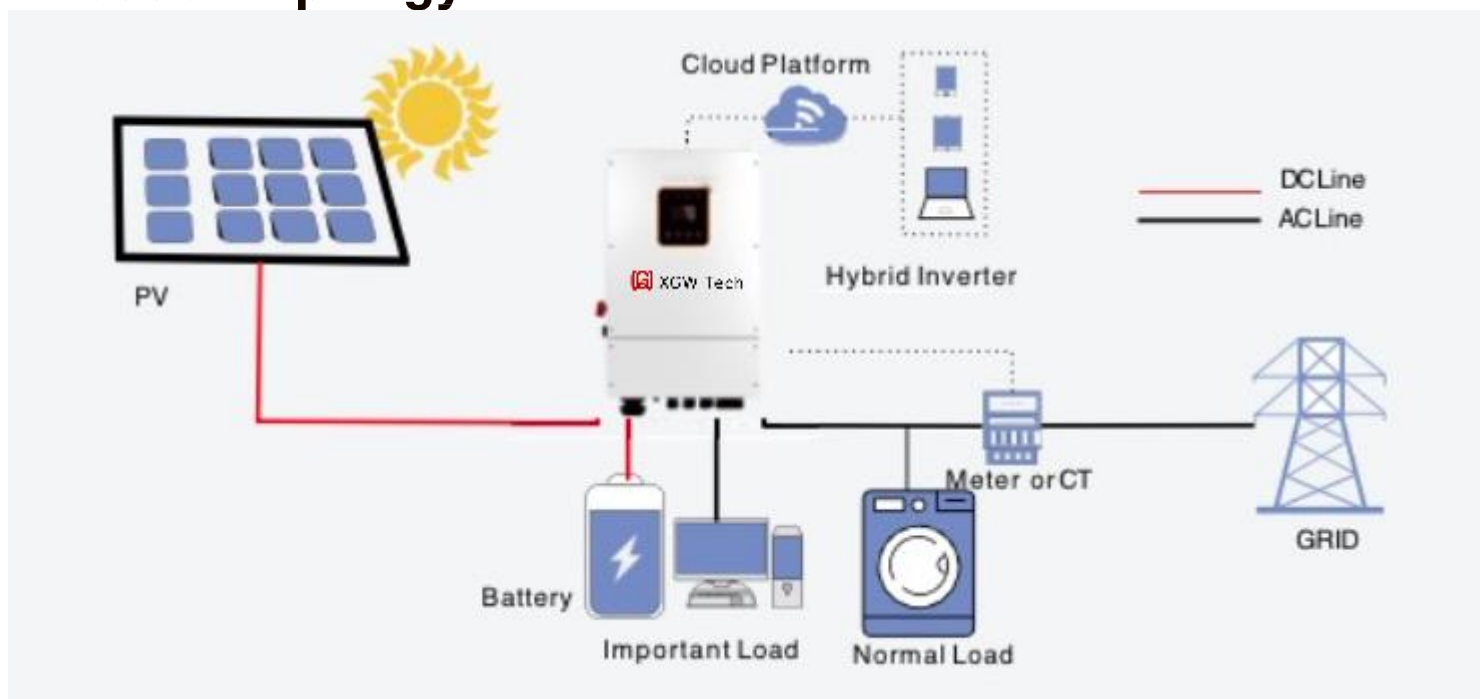
Advanced

- Maximum efficiency up to 98.2% . 4 independent MPPT design,making full use of light energy in different directions. Distributed virtual power station management node.
- Remote monitoring of computers and mobile phones

Application



Product Topology



Model	NK-LB5000LNA	NK-LB6000LNA	NK-LB8000LNA	NK-LB10000LNA
PVinput				
Max. Input Power	7.5KW	9KW	12KW	13KW
Max. PV voltage	500V			
MPPT range/nominal	125V-500V			
Max. input current	12A			
MPPT tracker/strings	4/1			
ACoutput				
Rated power	5KVA	6KVA	8KVA	10KVA
Max. output current	24A	28.8A	38.3A	47.8A
Nominal voltage/range	120/240 (split phase), 208 (2/3 phase), 230 (single phase)			
Frequency	50 /60Hz			
PF	0.8 lagging-0.8 leading			
THDI	<3%			
Battery				
Battery voltage range	40V~58V			
Max. charging voltage(V)	58V			
Charge/discharge current	120 A / 120 A	135 A / 135 A	190 A / 190 A	210 A / 210 A
Battery type	lithium /Lead-acid			
Communication interface	CAN/RS485			
Eps output				
Rated power (KVA)	5KVA	6KVA	8KVA	10KVA
Max. Output Power	120/240 (split phase), 208 (2/3 phase), 230 (single phase)			
Overload capacity	125%, 60s / 150%, 1S			
Rated current	24A	28.8A	38.3A	47.8A
Rated frequency	50 /60Hz			
Automatic switchovertime	<20ms			
THDU	<2%			
Generaldata				
Max efficiency	98.2%			
CECefficiency	97.2%			
MPPT efficiency	99%			
Protection class	IP65 / NEMA 3R			
Noise emission (typical)	< 29db			
Operation temperature	-25°C~+60°C			
Cooling	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2000m			
Dimensions (WXDXH)	430X220X710mm			
Weight	41kg			
Inverter topology	Without transformer			
Self-consumption	<3W			
Features				
Display	LCD			
Communication	Modbus, RS485, WIFI, 4G			
Safety	UL1741SA all options, UL1699B,CSA22.2			
EMC	FCCPart 15 ClassB			