

Commercial Hybrid Energy Storage Inverter



Modular Design



System Expansion



High DC Voltage Utilization

- Support photovoltaic access and battery hybrid energy storage
- Can switch between on-grid and off-grid output
- Can be connected with high-voltage energy storage battery between 200V~865V
- Each function unit adopting streamlined and intelligent modular design
- With EMS function
- Support system expansion, allowing the maximum number of parallel operation modules of 4 off-grid parallel operation
- High DC voltage utilization via three-phase three-level four-bridge topology
- Support 1.1 times continuous AC overload output and three-phase 100% unbalanced load access, allowing the rated output load phase out operation
- Support single-phase single-load access
- Based on capacity available, intelligently adjust the load operating conditions
- Modbus TCP/RS485/CAN communication
- All kinds of protection functions required by CQC and TUV certification
- IP65 protection level
- Cooling mode: Intelligent air cooling or Water cooling optional
- Installation mode: wall mounted or drawer type



Model	LN-G30KF-AN1	LN-G60KF-AN1	LN-G90KF-AN1	LN-G120KF-AN1
Photovoltaic Input Parameter				
Max. DC Voltage (V)	1100			
Starting Voltage (V)	250			
MPPT Voltage Range (V)	250~1000			
Full load MPPT Voltage Range (V)	375~850		450~850	
MPPT Max. Input Current (A)	45	45	65	65
MPPT Input Group Strings	3+3	3+3+3+3	5+5+5+5	5+5+5+5
Number of MPPT	2	4	4	4
Battery Input Parameter				
Max. DC Bus Voltage (V)	900			
Max. DC Current (A)	55	110	165	220
DC Voltage Working Range (V)	600~900			
DC Voltage Ripple Coefficient	2%			
Rated Power (kW)	30	60	90	120
AC Side Parameter				
Max. Power Output (kW)	33	66	99	132
AC Access Mode	Quick plug terminal/M8 Waterproof joint			
Mode of Isolation	No isolation			
Range of Reactive Power (kVA)	0~30	0~60	0~90	0~120
Rated Grid Voltage (V)	400			
Operation Parameters of Grid Connection				
Allowable Grid Voltage (V)	304~440			
Rated Grid Frequency (Hz)	50/60			
Allowable Grid Frequency (Hz)	47~53/57~63			
Total Harmonic Distortion of Current	3%			
Power Factor	-1~1			
Charge and Discharge Conversion Time (ms)	20			
Rated Output Voltage (V)	400			
Off-grid Operation Parameters				
Voltage Deviation	±2%			
Voltage Imbalance Degree	22%, less than 4%			
Access Load Allowed Imbalance Degree	100%			
Voltage Total Harmonic Distortion Rate	3% (No load or rated resistive load)			
Rated Output Frequency (Hz)	50			
Dynamic Voltage Transient Range	10% (Under resistive/balanced load condition, the load increases from 20% to 100% or decreases from 100% to 20%)			
Output Overvoltage Protection Value	Can be set			
Output Undervoltage Protection Value	Can be set			
Max. Efficiency	97%			
Common Parameters				
Allowable Ambient Temperature (°C)	-40~+6			
Allowable Relative Humidity	0~100%			
Noice (dB)	59			
Dimensions W*H*D (mm)	800 × 680 × 330			
Weight (kg)	≤95			
Ingress Protection	IP65			
Cooling	Intelligent air cooling			
Insulation Resistance	1MΩ			
Communication Interface	Ethernet, 485			
Dispalry and Communication				
Human-computer Interface	LCD Color display: charge/discharge, shutdown, standby, fault			
Communication Protocol	Modbus, TCP/RTU			