

Single-Phase Hybrid Energy Storage Inverter

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Connection Protection
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Intelligent Management
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Multiple Inverters Parallel

- Multi-inverter parallel connection
- Economical and efficient, maximum efficiency≥96.5%
- Compatible with lead-acid, lithium-ion batteries and other batteries
- Anti-Flux fuction, self-consumption
- APP monitoring, support multiple working mode
- Intelligent management



Model	LN-M6KL-S1	LN-M8KL-S1	LN-M10KL-S1	LN-M12KL-S1
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	370 (125~500)			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150~425			
Full Load MPPT Voltage Range (V)	200~425			
Max. DC Input Current(A)	13+13	20+20	26+26+26	
No.of MPPT Trackers	2		3	
No.of Strings per MPPT Tracker	1+1	1+1	1+1+1	1+1+1
AC Input/Output Data				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Input/Output Rated Current(A)	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2
Max.AC Input/Output Current(A)	30/28.7	40/38.3	50/47.9	60/57.4
Max.Continuous AC Passthrough (A)	40	50	60	60
Peak Power (off grid)	2 times of rated power, 10 s			
Power Factor	0.8 leading - 0.8 lagging			
AC Output Frequency and Voltage	50/60Hz; 220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% (Rated Current)			
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60			
Max. Charging Current (A)	135	190	220	250
Max. Discharging Current (A)	135	190	220	250
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	99%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity Protection	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Surge Protection	DC Type II/AC Type II			
Over Voltage Category	DC Type II / AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/IEC 62116,EN 50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2			
General Data				
Operating Temperature Range (°C)	-40~60 °C, >45 °C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication with BMS	RS485; CAN			
Monitoring mode	WIFI, APP			
Weight (kg)	24	29	31	
Size(W/H/D)(mm)	346x506x255	426x526x255	446×576×254	
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10Years Optional)			