

All-in-One Three-phase Energy Storage



Home Style



Less Noise



Space Saving



- All-in-one design, home style, neat and elegant
- Ultra-thin body design, space saving
- Modular design, flexible expansion, IP65 waterproof grade
- Automatic management of battery charge and discharge, multiple intelligent protection, safe and reliable
- Natural heat dissipation, no external cooling fans, less noise

Model	LN-MA6KH-T1	LN-MA8KH-T1	LN-MA10KH-T1	LN-MA12KH-T1
System Parameters				
Number of Power Module	1			
Number of Battery Control Module	1			
Number of Battery Module	2	3	4	5
Battery Capacity	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Battery Usable Capacity	9.21kWh	13.82kWh	18.43kWh	23.04kWh
PV Input Parameters				
Max. Power of PV Array	9kW	12kW	15kW	15kW
Max. PV Voltage	1000Vd.c.			
MPPT Voltage Range	200-850Vd.c.			
No. of MPPT Trackers	2			
No. of Strings per MPP Tracker	1			
Max. Input Current per MPP Tracker	13A			
Max. Short-circuit Current per MPP Tracker	18A			
AC Output Parameters				
Nominal AC Output	3W+N+PE, 50/60Hz, 400/380Vac			
AC Voltage Range	280-490Vac			
AC Grid Frequency Range	50±5Hz/60±5Hz			
Rated Active Power	6kW	8kW	10kW	12kW
Max. Apparent Power	7kVA	8.8kVA	11kVA	13.2kVA
Max. grid Output Current	12A	15A	17A	20A
Harmonics Factor	<3%			
Power Factor Adjustable Displacement	0.8 leading to 0.8 lagging			
AC Output Parameters (Back-up)				
Nominal Output Voltage	400/380Vac			
Rated Output Frequency	50Hz/60Hz			
Max. Apparent Output Power	6kVA	8kVA	10kVA	10kVA
Output THDu (@ Linear load)	<3%			
Safety Protection				
PV String Reverse Polarity Protection	Yes			
Leakage Current Protection	Yes			
Anti-islanding Protection	Yes			
AC Output Short Circuit Current Protection	Yes			
Insulation Impedance Detection	Yes			
Battery Reverse Connection Protection	Yes			
General Parameters				
Power Module Dimensions W*H*D (mm)	700 × 430 × 188			
Battery Control Module Dimensions W*H*D (mm)	700 × 150 × 188			
Power Module Weight	26 kg			
Battery Control Module Weight	10 kg			
Installation	Stacked Installation			
Operating Temperature Range	-25°C~+60°C*			
Cooling Method	Natural Convection			
Ingress Protection Rating	IP65			
Relative Humidity	0-95%			
Display	LCD			
Communication with Meter	RS485			
Monitor Communication	Standard WiFi; GPRS/LAN (optional)			
Battery Module Parameters				
Battery Type	Lithium Iron Phosphate (LFP)			
Nominal Energy	5.12kWh			
Usable Energy	4.60kWh			
Nominal Voltage	102.4V			
Max. Output Current	25A			
Peak Output Current	50A, 3s			
Expansion Ability	Max. 5 in Series			
Battery Module Dimensions W*H*D (mm)	700 × 500 × 188			
Battery Module Weight	45kg			
Certification				
Certifications	EN 62109-1, EN 62109-2, IEC 61000-6-1/-2/-3/-4, IEC 61000-3-11, IEC61000-3-12, VDE-AR-N 4105, EN 50549-1, IEC62619, UN38.3			

*Charging function is limited below 0°C, and discharging function is limited below -10°C.