







American ESS Split-phase Inverter

Battery voltage: 48V



> KEY STRENGTHS

-  Support 6 machines in parallel.
-  In the case of off-grid, it can be used to guarantee the critical load.
-  Support remote monitoring, upgrade and automatic battery management.
-  Support battery BMS remote upgrade.

> APPLICATION AREA



Luxury villa



Residential electricity



Nomadic farm



Communication base station

LNA series low-voltage north american hybrid inverter can be widely used in various home storage application environments. Combined with smart display, it makes operation and maintenance easier.

Input (PV)

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Max. power(kW)	7.5	9	12	13
Max. DC voltage(V)	500			
MPPT voltage range(V)	120~500			
Max.input current of single MPPT(A)	14			
MPPT tracker/strings	4/1			

AC output

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Rated output power(kVA)	5	6	8	10
Max. apparent Power (kVA)	5.5	6.6	8.8	11
Max. output current(A)	24	28.8	38.3	47.8
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),230 (single phase)			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	Split phase, 2/3 phase, single phase			

Battery

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Battery voltage range(V)	40~58			
Max. charging voltage(V)	58			
Max. charge/discharge current(A)	120/120	135/135	190/190	190/210
Battery type	lithium /Lead-acid			
Communication interface	CAN/RS485			

EPS output

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Rated power(kVA)	5	6	8	10
Rated output voltage(V)	120/240 (split phase), 208 (2/3 phase),230 (single phase)			
Rated output current(A)	24	28.8	38.3	47.8
Rated frequency(Hz)	50/60			
Automatic switching time(ms)	< 20			
THDu	< 2%			
Overload capacity	125%,60S/150%,1S			

General data

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Max. efficiency	≥98.2%			
North american efficiency	≥97.2%			
Ingress protection	IP65/NEMA 3R			
Operation temperature (°C)	-25 ~ 60			
Noise emission(dB)	<25	<29	<29	<29
Cooling	Forced air			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Dimensions W *D *H (mm)	460*225*760			
Weight(kg)	41			
Isolation transformer	No			
Self-consumption(W)	<3			

Display and communication

Model	R5KLNA	R6KLNA	R8KLNA	R10KLNA
Display	LCD, touch screen			
Interface:RS485/Wifi/4G/CAN/DRM	Yes			
Safety standard	UL1741, CSA C22.2 No. 107.1:16,UL1998			
EMC	FCC Part 15, Class B			
On-grid	IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB			
DCARC-Fault	UL1699B			