

SNA 3-6k

With thousands of hybrid inverters & AC units installed around the world, Luxpower has stepped even further to bring power to every home, with or without grid power.

ECO Hybrid SNA 3-6k is now available for homes without grid. Inquire your local distributor to reorganize your power at home, no more blackouts.



How it works

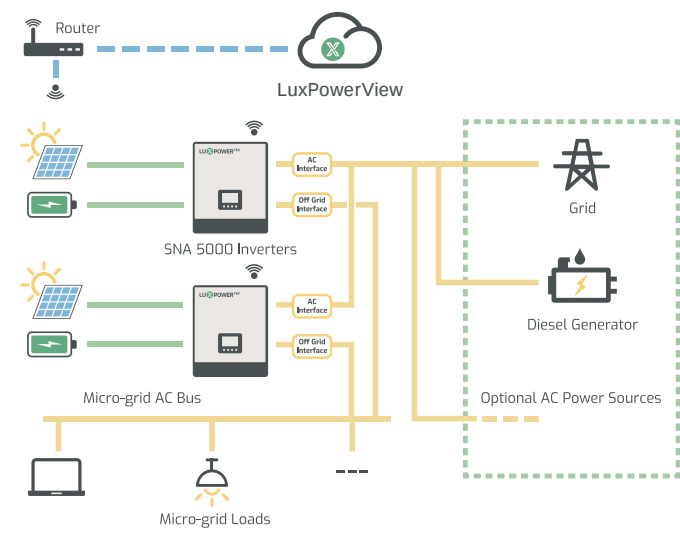
/ System Connection

Off-grid system is a good solution for the area where the grid power is unstable or in scarcity.

Advantage of solar power:

- Easy to install
- Efficient
- Cost-effective
- Environment-friendly

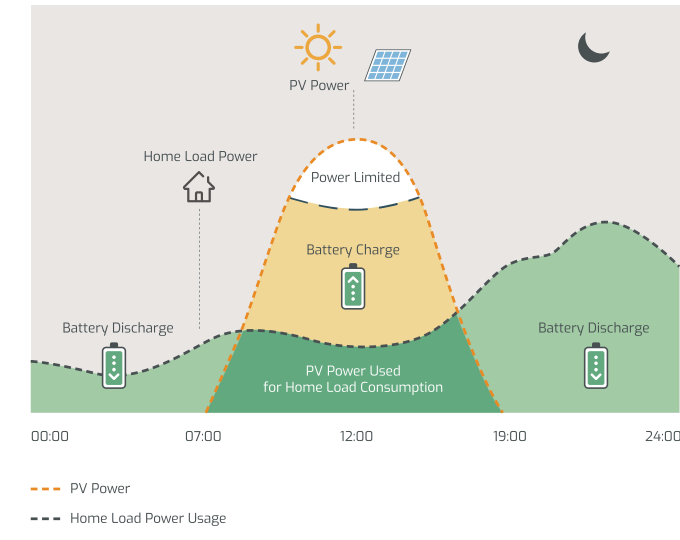
Can partially or entirely replace diesel generator. Flexible from 3 to 50kW.



/ Working Mode

SNA 3-6kW series off-grid inverters can support the system to work as back-up power or a replacement for diesel generator. Since the inverter support paralleling function, the capacity of the system can range from 3kW to 50kW.

The inverter supports several working modes, including: Pure off-grid working mode: working as traditional off-grid inverters, can prioritize between using AC power or solar power. Hybrid working mode: working as a hybrid, supporting solar and utility jointly taking the load, can choose between self-consumption mode or charge priority mode.



SNA 3-6k Single phase

Reclaim
Your
Power

- Intelligent off-grid & hybrid modes
- Off-grid seamless switching
- Wide PV input voltage range
- Great battery compatibility
- Single phase/Unbalanced 3-Phase
- Support up to 16pcs in parallel
- -Host inverter automatically generated to manage the entire system
- Separate generator port available

SpecifiCation

INPUT (PV DC)	SNA 3000W		SNA 4000W		SNA 5000W		SNA 6000W	
Max. PV array power(W)	6000 (3000/3000)		8000 (4000/4000)		8000 (4000/4000)		8000 (4000/4000)	
Rated PV input voltage(V)	320							
Number of independent MPPT inputs	2							
PV input voltage range(V)	100~480							
MPPT voltage range(V)	120~385							
Start-up voltage(V)	100							
Max. PV input current per MPPT(A)	17/17							
Max. PV short-circuit current input per MPPT(A)	25/25							
Battery								
Compatible battery type	Lithium-ion/Lead-Acid							
Rated battery voltage(V)	48							
Battery voltage range(V)	38.4~60							
Max. charging/discharging current(A)	70	90	110	140				
Max. discharging/discharging power(W)	3000	4000	5000	6000				
Recomand capacity of battery per inverter	>100AH	>200AH	>200AH	>200AH				
Force wake up battery from PV function	YES							
Force wake up battery from Grid function	YES							
Grid								
Rated AC voltage(V)	230							
Rated AC frequency(Hz)	50/60							
Rated AC output current(A)	13.5	17.5	22	26.5				
Rated AC output power(W)	3000	4000	5000	6000				
Max. AC input current(A)	26	35	35	39.5				
Max. AC input power(W)	6000	8000	8000	9000				
PF	0.99							
THDI	<5%							
Rated AC current of BYPASS relays(A)	40							
UPS								
Rated output power(W)	3000	4000	5000	6000				
Rated output voltage(V)	230							
Rated output current(A)	13.5	17.5	22	26.5				
Rated output frequency(Hz)	50/60							
Surge power, duration	2Pn, <2S							
Switching time	<15ms@Single/ <30ms@Parallel							
Wave form	Sine wave							
THDV	3%							
Efficiency								
Max. MPPT efficiency	0.99							
Max. efficiency	0.93							
EU efficiency	/							
Max. charging efficiency	0.93							
Max. discharging efficiency	0.93							
Protection								
Over current/voltage protection	YES							
AC Short-circuit current protection	YES							
Grid monitoring	YES							
AC Surge protection Type III	YES							
Battery reverse polarity protection	YES							
General								
Dimensions(W*H*D)	303*505*135mm/11.9*19.9*5.3inch							
Weight	14.5kg/32lbs							
Ingress protection rating	IP20							
Operating environment temperature range	0~50℃							
Storage temperature range	-15~60℃							
Relative humidity	5%~95%							
Display & Communication interface	LCD+LED, RS485/Wi-Fi/CAN							
Warranty	2years							
Cooling method	FAN							
Topology	Transformer-less							
Altitude	<2000m							
Noise emission(typical)	<50dB							
Standards & Certification								
IEC 62109-1, IEC 62109-2, IEC 61000								