

## ECO HYBRID



# SNA 3-6K

**SNA 3-6K Single-Phase Inverter, a cutting-edge solution for residential energy independence.**

**This inverter offers more than just off-grid functionality; it also provides autonomous power generation, making it suitable for regions with unreliable power supplies. It seamlessly transitions between on and off-grid modes, making it ideal for remote areas and places with unstable power, enabling direct off-grid use.**



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# How it works

Your Reliable Energy Solution Partner

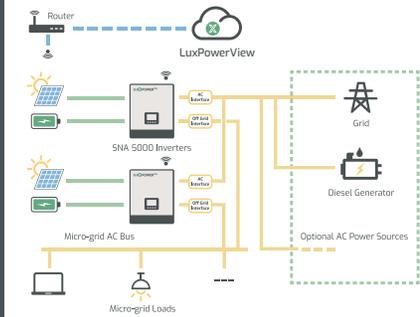
### / System Connection

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

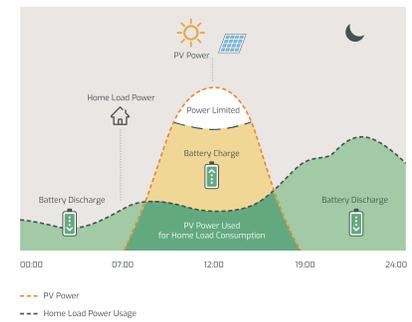
Can partially or entirely replace diesel generator. Flexible from 3 to 50kW.



### / 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.



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LUPOWERTEK

# SNA 3-6K Single phase

- Off-grid seamless switching
- Wide PV input voltage range
- Single phase/Unbalanced 3-Phase
- Supports 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	
<b>Battery</b>				
Compatible battery type	Lithium-ion/Lead-Acid			
Rated battery voltage(V)	48			
Battery voltage range(V)	38.4~60			
Max. charging/discharging current(A)	70/70	90/90	110/110	125/140
Max. charging/discharging power(W)	3000	4000	5000	6000
Recommend 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			
<b>Grid</b>				
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
PF	0.99(Adjustable from 0.8 leading to 0.8 lagging)			
THDI	<5%			
Rated AC current of BYPASS relays(A)	40			
<b>UPS</b>				
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%			
<b>Efficiency</b>				
Max. MPPT efficiency	99%			
Max. efficiency	93%			
Max. charging efficiency	93%			
Max. discharging efficiency	93%			
<b>Protection</b>				
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			
<b>General</b>				
Dimensions(W*H*D)	330*505*135mm/13*19.9*5.3inch			
Weight	14.5kg/32lbs			
Ingress protection rating	IP20			
Operating environment temperature range	0~50°C			
Storage temperature range	-15~60°C			
Relative humidity	5%~95%			
Display & Communication interface	LCD+LED, RS485/Wi-Fi/CAN			
Warranty	2years			
Cooling method	Smart Cooling			
Topology	Transformer-less			
Altitude	<2000m			
Noise emission(typical)	<50dB			
<b>Standards &amp; Certification</b>				
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1				