

# PRODUCT BROCHURE

Solar & Energy Storage



LUX POWER TECHNOLOGY CO., LTD

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LUX POWER<sup>TEK</sup>



# OFF-GRID INVERTER

SONAR 5K WPV



Support Li-ion battery, advanced battery management integrated for Lead-acid battery



Advanced paralleling technical to support 9 units paralleling



2 MPPT charger controllers integrated with HV and LV MPPT models



WIFI/GPRS remote monitoring, setting and upgrade

Local monitoring, setting, upgrade supported



Flexible working modes with settable charge and load power supply priority

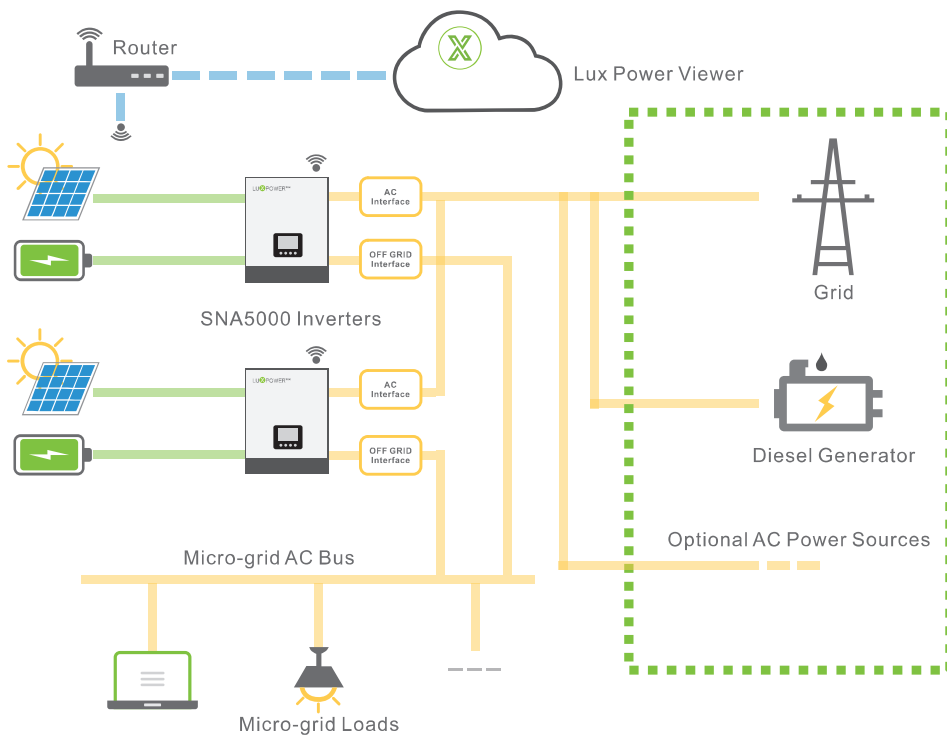
Support solar and AC take the load jointly, working as hybrid



Support micro grid system with separate generator input terminal, and can remote control generator



# Solution



Off grid system is a good solution for the area where is no electricity, shortcomings or with unstable power

Advantage of photovoltaic power:

- ▶ economic
- ▶ clean
- ▶ environmentally friendly
- ▶ noise-free

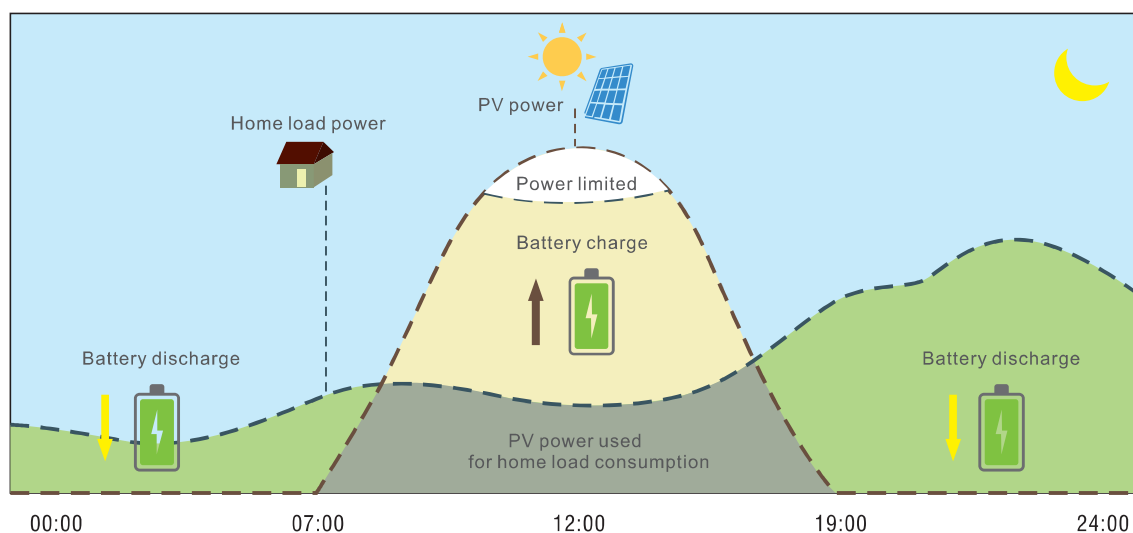
Can partially or completely replace diesel generator. System Capacity: 3-50kW

# Working Modes

SNA5k serial off grid inverters can support the system to work as a back-up power or a replacement of diesel generator. Since the inverter support paralleling function, the capacity of system can range from 3kW to 50kW. The inverter support several working modes.

Pure off-grid working mode: working as traditional off grid inverters, can set output to utility first, battery first or solar first.

Hybrid working mode: working as a hybrid, support solar and utility jointly take the load, can set to self consumption mode or charge priority mode.



Output Data	SNA 3000 WPV	SNA 4000 WPV	SNA 5000 WPV
Rated power	3000W/3000VA	4000W/4000VA	5000W/5000VA
Parallel capacity	YES	YES	YES
Normal output voltage	230/240, Split phase 220/110 Vac *	230/240, Split phase 220/110 Vac *	230/240, Split phase 220/110 Vac *
Normal output frequency	50/60Hz	50/60Hz	50/60Hz
Surge power	6000VA	8000VA	10000VA
Switch time	10ms	10ms	10ms
Waveform	Pure sine wave	Pure sine wave	Pure sine wave

Battery Data			
Battery Type	Lithium/Lead-Acid	Lithium/Lead-Acid	Lithium/Lead-Acid
Normal Voltage	51.2V/48V	51.2V/48V	51.2V/48V
Max. Charge Voltage	59V	59V	59V

Solar Charger Data			
Max. Recommended PV Power	6000W	6000W	6000W
MPPT Tracker	2	2	2
Max. PV Open Circuit Voltage	480Vdc	480Vdc	480Vdc
MPPT Voltage Range	100-385Vdc	100-385Vdc	100-385Vdc
Max. Solar Charge Current	100A	100A	100A
Max. MPPT Efficiency	>98%	>98%	>98%
Parallel MPPT Charger	YES	YES	YES

AC Charger Data			
Normal Voltage	230Vac	230Vac	230Vac
AC Voltage Range	110-280Vac	110-280Vac	110-280Vac
Max. Charge Current	60A	60A	60A
Frequency Range	50/60Hz(Auto Sensing)	50/60Hz(Auto Sensing)	50/60Hz(Auto Sensing)

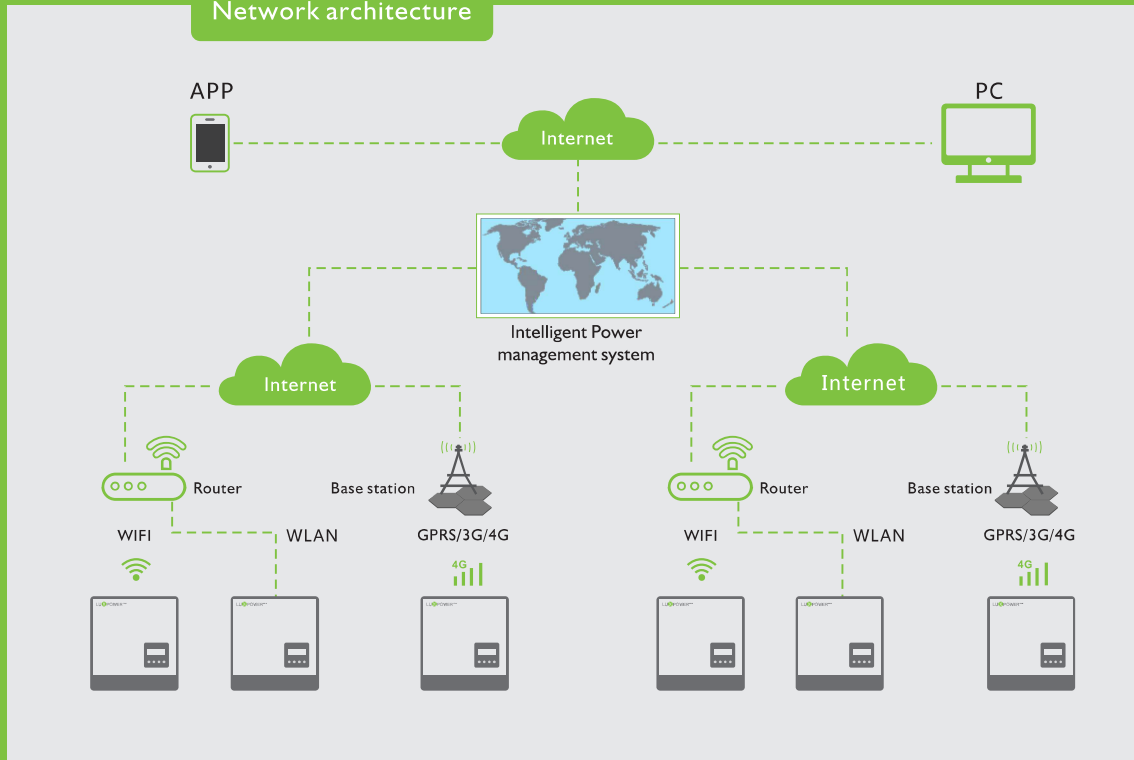
General Data			
Dimensions(W/H/D)	504x330x135mm	504x330x135mm	504x330x135mm
Weight	14Kg	14Kg	14Kg
Protection Degree	IP 20	IP 20	IP 20
Relative Humidity	5%~95% Relative Humidity(Non-condensing)		
Operating Temperature	0~50°C	0~50°C	0~50°C
Storage Temperature	-15°C~60°C	-15°C~60°C	-15°C~60°C

Interfaces			
Display	LCD+LED	LCD+LED	LCD+LED
Lithium Battery Communication	CAN/RS485	CAN/RS485	CAN/RS485
RS485/Dry Connector	YES/YES	YES/YES	YES/YES
Wifi/GPRS	YES/YES	YES/YES	YES/YES
Warranty	2years	2years	2years

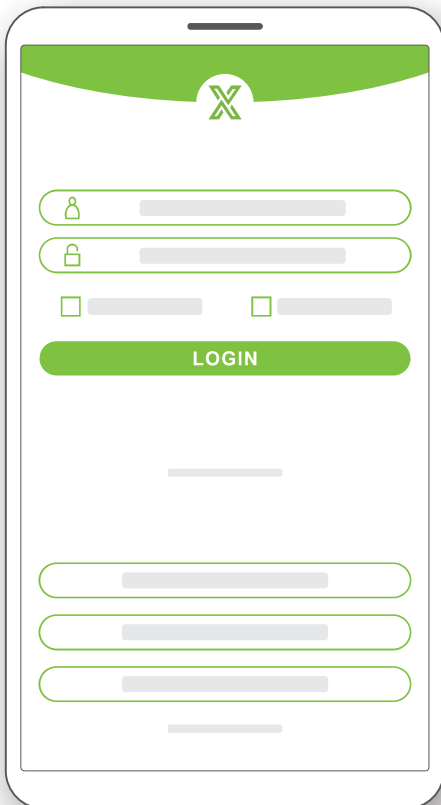
\* For split phase version

# Intelligent Monitor System

## Network architecture



## LuxPower View



Android APP



IOS APP



# Monitoring Features



Real-time monitoring and Management platform based on smart cloud technology



Advanced remote upgrade and management function for easy usage, maintenance and services



Real-time running data stored locally in the inverter for up to 30 days when wifi or LAN monitoring connection disconnected



One-click WIFI connection and much easier operation on the monitoring and management platform.



Multi-level system monitoring and management



Available for Web, iOS and Android system.





# Application





“

*Where sun shined  
Power always on*

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