

# PRODUCT BROCHURE

Solar & Energy Storage



LUX POWER TECHNOLOGY CO., LTD

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**LUXPOWER<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



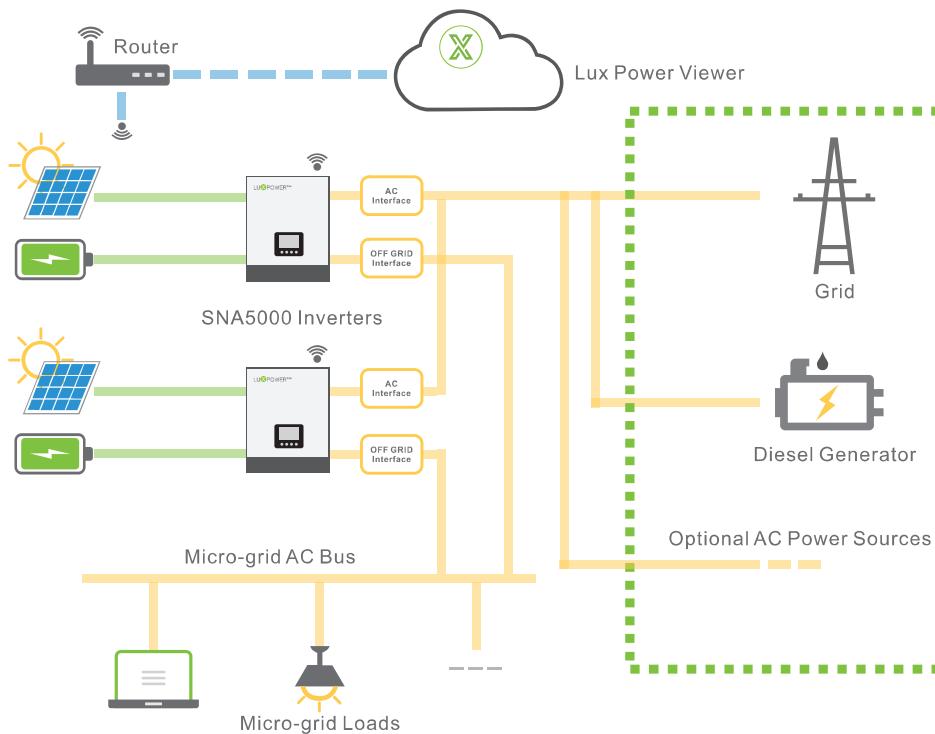
Support solar and AC take the load jointly, working as hybrid



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 there is no electricity, shortcomings or with unstable power

Advantage of photovoltaic power:

- economic
- clean
- environmentally friendly
- noise-free

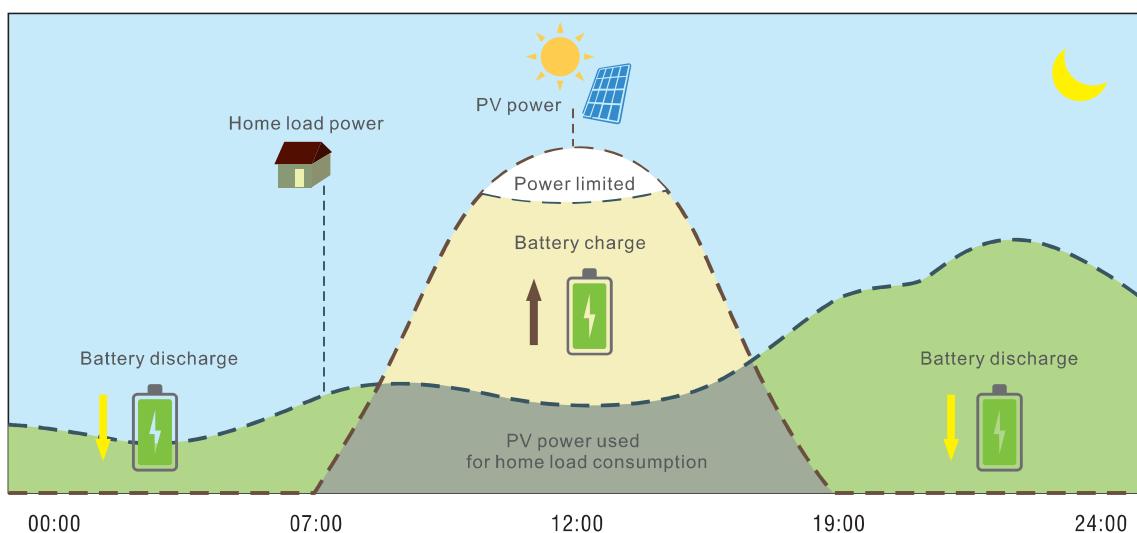
Can partially or completely replace diesel generator. System Capacity: 3-50kW

# 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 supports paralleling function, the capacity of system can range from 3kW to 50kW. The inverter supports 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, supports solar and utility jointly take the load, can set to self consumption mode or charge priority mode.



<b>Output Data</b>	<b>SNA 3000 WPV</b>	<b>SNA 4000 WPV</b>	<b>SNA 5000 WPV</b>
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

<b>Battery Data</b>			
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

<b>Solar Charger Data</b>			
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

<b>AC Charger Data</b>			
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)

<b>General Data</b>			
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

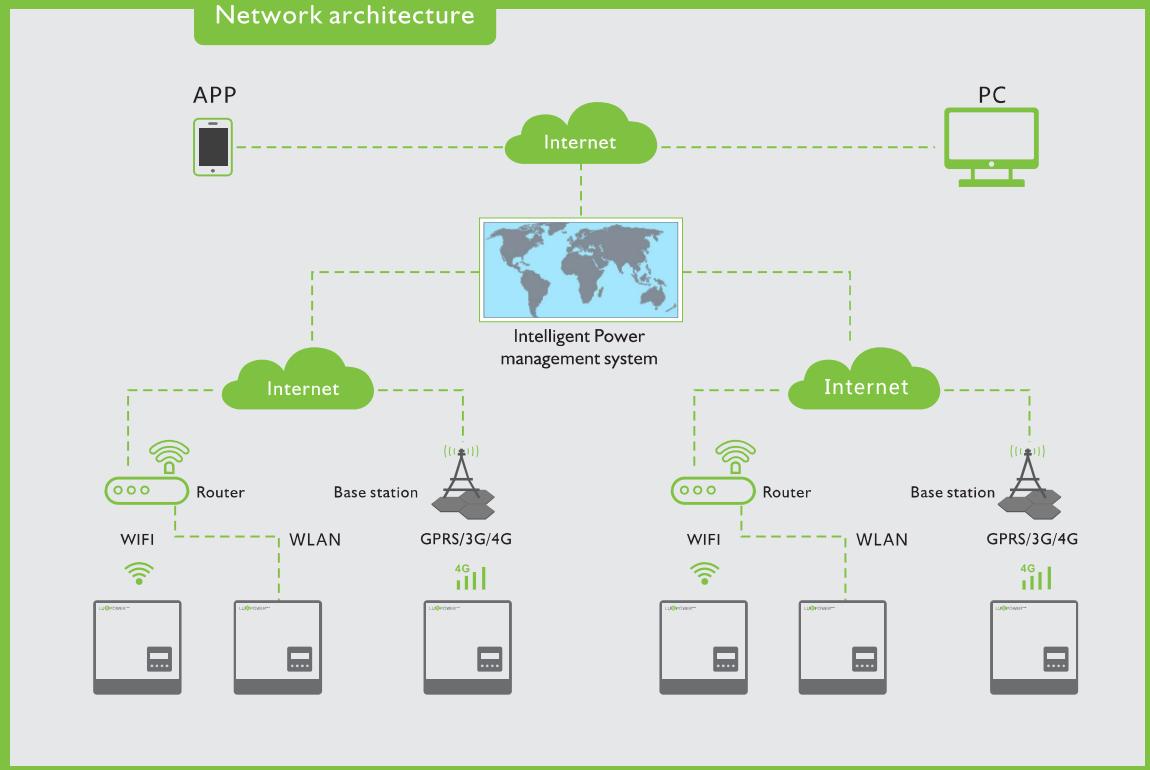
  

<b>Interfaces</b>			
Display	LCD + LED	LCD + LED	LCD + LED
Lithium Battery Communication	CAN/RS485	CAN/RS485	CAN/RS485
RS485/Dry Connector	YES/YES	YES/YES	YES/YES
Wifi/GPRS	YES/YES	YES/YES	YES/YES
Warranty	2years	2years	2years

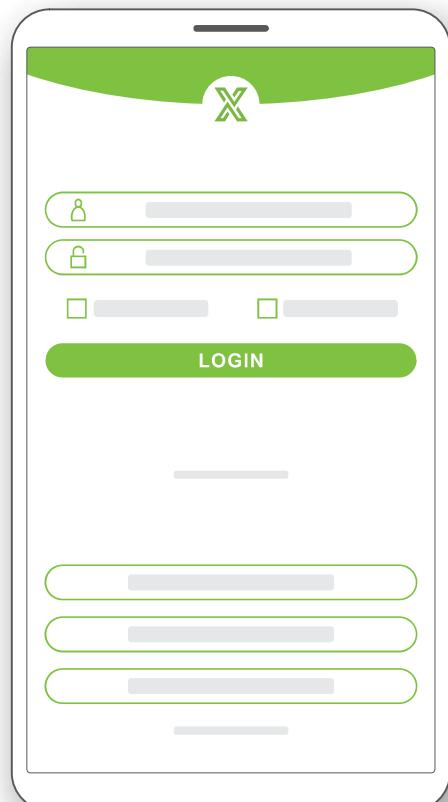
\* For split phase version

# Intelligent Monitor System

Network architecture



## LuxPower View



# 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.



# Certificate

 <b>IECEx</b> <b>INTERNATIONAL ELECTROTECHNICAL COMMISSION</b>	 <b>BUREAU VERITAS</b>
<h2>Certificate of Conformity</h2>	
<p><b>Certificate No.:</b> 1784APR0300204006  <b>Equipment:</b> Hybrid inverter  <b>Brand Name:</b> <b>LUPOWER™</b>  <b>Test Model No.:</b> LXK-XP hybrid, LXK-48 hybrid, LXK-4.5K hybrid, LXK-5K hybrid  <b>Applicant:</b> Shenzhen Lux Power Technology Co., LTD  <b>Report No.:</b> LD17800900041, LD17800900042</p>	
<p>The submitted sample of the above equipment has been tested for CE marking according to following European Directive and standards:</p> <ul style="list-style-type: none"> <li>- Low Voltage Directive 2014/35/EU.</li> </ul> <p>The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive.</p> <p>This certificate does not apply assessment of the production of the product. The CE marking may be affixed at all relevant and effective European Directives with CE are applicable.</p> <p><b>Applied rules and standards</b></p> <p>IEC/EN 62196-1:2019  Safety of power converters for use in photovoltaic power systems – Part 1: General requirements  IEC/EN 62196-2:2011  Safety of power converters for use in photovoltaic power systems –  Part 2: Particular requirements for inverters  IEC/EN 62196-12:2008  Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS</p> <p style="text-align: right; margin-top: 20px;">   Name: Ted Wu  Senior Manager PV Business Team  Date: 2018-01-18 </p> <p>This document shall not be reproduced, except in full, without the written approval of Bureau Veritas Shanghai Co., Ltd, Dapeng Branch Office.  Information given in this document is related to the tested specimen of the described electrical sample.</p>	

 <b>SOLAR-TECH</b> <b>VERITAS</b>	 <b>UL 4500 POWER™</b>
<b>Certificate of Conformity</b>	
<p><b>Certificate No.:</b> 1788AP030N034001</p> <p><b>Equipment:</b> Hybrid inverter</p> <p><b>Brand Name:</b> LUOPOWER™</p> <p><b>Test Model No.:</b> LXP-3k hybrid, LXP-4k hybrid, LXP-4.5k hybrid, LXP-5k hybrid</p> <p><b>Applicant:</b> Shenzhen Lax Power Technology Co., LTD Room 1001, Building 62, Zhongsheng Industrial Park, Zhanhua Community, Hengyang Street, Baoan District, Shenzhen</p>	<p><b>Report No.:</b> PVDE170803N034-1</p> <p><b>Use in accordance with regulations:</b> Power generation systems connected to the low-voltage distribution network. At the time of issue of this certificate the safety concept of an observational representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.</p> <p><b>Applied rules and standards</b> DIN VDE 0126-1-1 (VDE V 0126-1-1:2013-08) Automatic disconnection device between a generator and the public low-voltage grid</p>
 <b>Name: Dr. Wu</b> <b>Senior Manager, Quality Control Team</b> <b>Date: 2018-05-05</b>	
<p>This document shall not be reproduced, except in full, without the written approval of Shenzen Lax Power Technology Co., LTD, Dongguan Branch.</p> <p>Information given in this document is related to the tested specimen of the described electrical equipment.</p>	

<h1>Test Verification of Conformity</h1> <p>Verification Number: 180906030GZU-001</p>	<p><b>On the basis of the test understanding, the samples of the below product have been found to comply with the requirements of the referenced specifications/standards at the time the tests were carried out. This verification is part of the full test report and should be read in conjunction with it.</b></p> <p><b>Aplicant Name &amp; Address:</b> Shenzhen Lipo Power Technology Co.,Ltd Room 033, 4th Floor, Building E3, Zhongwei New Industrial Park, Zhongwei Community, Huanjiang Street, Bao'an District, Shenzhen, China Hybrid Inverter</p> <p><b>Product Description:</b> Rating &amp; Principle Characteristics: Model/Type Reference: Brand Name(s): Specification(s)/Standard(s): Verification issuing Office Name &amp; Address: Test Report Number(s): Additional information in Appendix</p> <p><b>See Appendix A for Test Verification of Conformity</b></p> <p>LXP-4K Hybrid, LXP-4K hybrid, LXP-4E hybrid, LXP-4.EK hybrid, LXP-4K hybrid</p> <p><b>LLCPOWER™</b></p> <p><b>EN 50436:2013, Requirements for generating plants to be connected in parallel with low voltage distribution networks</b> Typically, the following technical requirements and characteristics are applied for all CENELEC International Testing Services Shenzhen Ltd.: Guangzhou Branch: No. 100, Lane 1000, Shuangfeng Industrial Park, Shuangfeng Town, Huangpu Science City, GETD, Guangzhou, China 180806030GZU-001</p> <p><b>Grady Yo</b> Signature Name: Grady Yo Position: Manager Date: 25 Jan, 2019</p> <p><b>intertek</b></p>
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 <b>SUNPOWER</b> VERITAS	 <b>LUMIPOWER</b> VERITAS
<b>Attestation of Conformity</b>	
<p><b>Equipment:</b> Hybrid inverter</p> <p><b>Brand Name:</b> LUMIPOWER</p> <p><b>Test Model No.:</b> LXP-3K-hybrid</p> <p><b>Applicant:</b> Shenzhen Lumi Power Technology Co., LTD Address: No. 1000, Huoqiu Building #3, Zhongshanhu Industrial Park, Zhongguan Community, Huaqiang Street, Bao'an District, Shenzhen</p> <p><b>Report No.:</b> PV18K17952000034-2</p>	
<p><b>User is aware with regulations:</b></p> <p>Automatic disconnection device with single-phase mains surveillance in accordance with Engineering Recommendation G832/2012 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the above mentioned inverter. This serves as a replacement for the disconnection device with connecting function that can connect the distribution network provider at any time.</p>	
<p><b>Applied rules and standards:</b></p> <p>Engineering Recommendation G832/2012</p> <p>Recommendations for the Connection of Type Tested Small-scale Embedded Generators (Up to 16A per Phase) in Parallel with Low-Voltage Distribution Systems</p>	
<p><b>DIN V VDE V 0126-1-1:2006-02 (Functional safety)</b></p> <p>Automatic disconnection device between a generator and the public low-voltage grid</p>	
 Name: Test Manager Position: Manager PV Inverter Team Date: 2018-04-29	
<p>This document shall not be reproduced except in full, without the prior approval of Shenzhen Lumi Power Technology Co., Ltd. Shenzhen, China.</p> <p>Information given in this document is related to the tested specimen of the described electrical sample.</p>	

# Application



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*Where sun shined  
Power always on*

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