

PRODUCT BROCHURE

Solar & Energy Storage



LUX POWER TECHNOLOGY CO., LTD

www.luxpowertek.com | info@luxpowertek.com

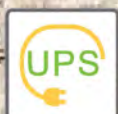
LUX POWER^{TEK}

OFF-GRID INVERTER

SONAR 5K WPV



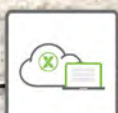
Support Li-ion battery, advanced battery management integrated for Lead-acid battery



Advanced paralleling technical to support 9 units paralleling

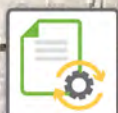


2 MPPT charger controllers integrated with HV and LV MPPT models



WIFI/GPRS remote monitoring, setting and upgrade

Local monitoring, setting, upgrade supported



Flexible working modes with settable charge and load power supply priority

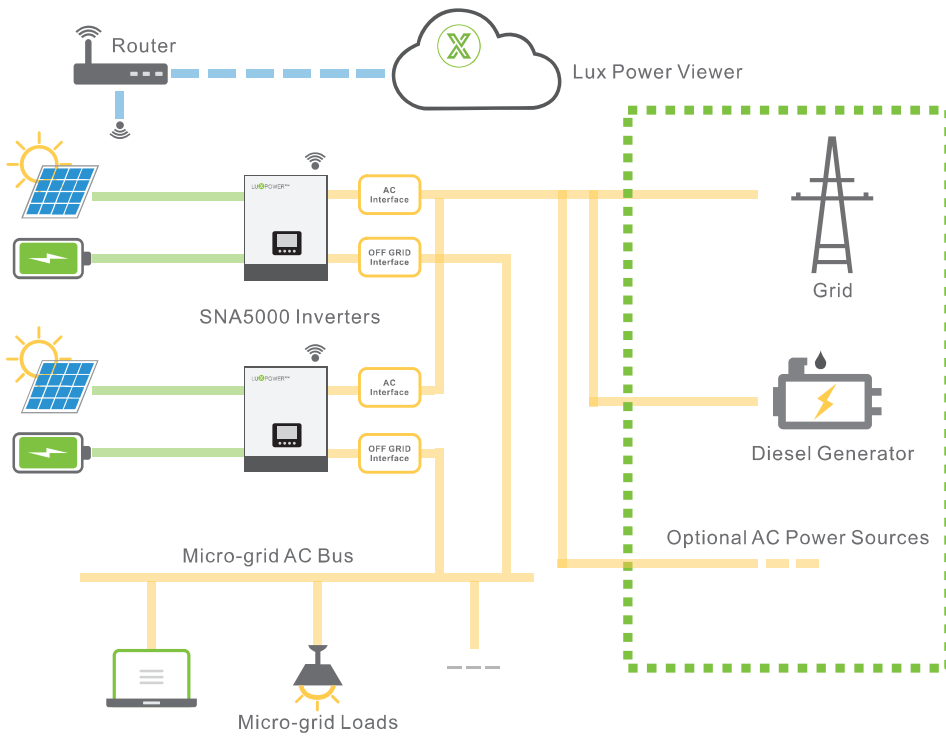
Support solar and AC take the load jointly, working as hybrid



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

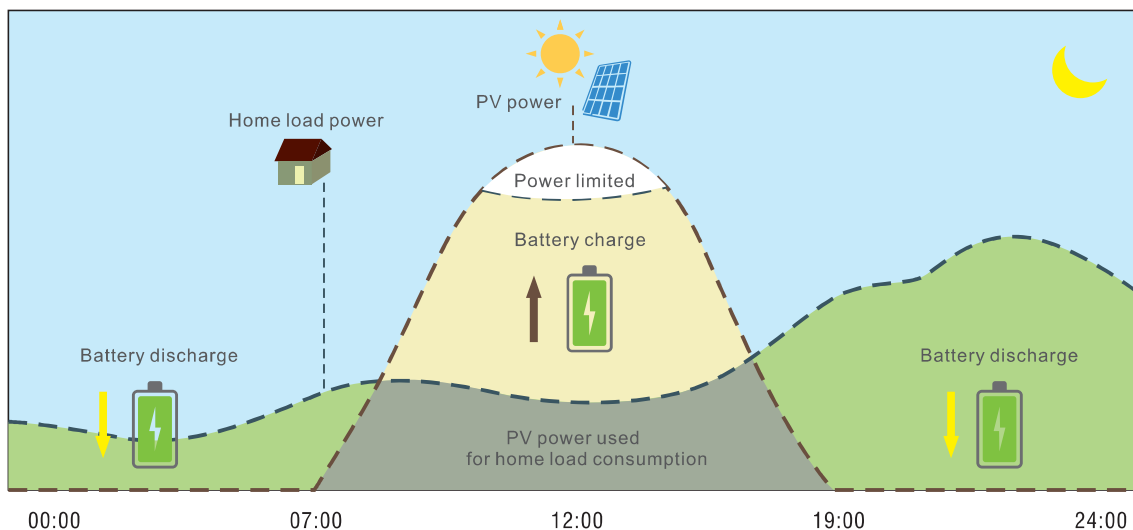
Can partially or completely replace diesel generator. System Capacity: 3-50kW

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)

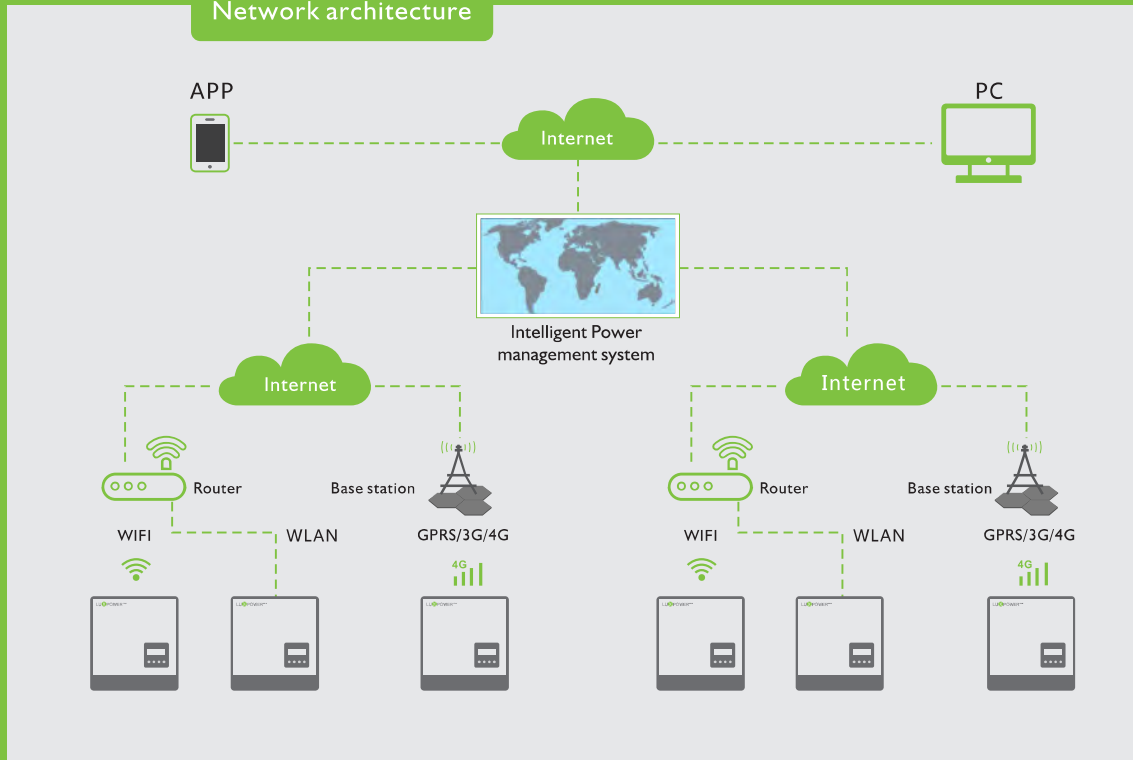
General Data			
Dimensions(W/H/D)	504x330x135mm	504x330x135mm	504x330x135mm
Weight	14Kg	14Kg	14Kg
Protection Degree	IP 20	IP 20	IP 20
Relative Humidity	5%~95% Relative Humidity(Non-condensing)		
Operating Temperature	0~50°C	0~50°C	0~50°C
Storage Temperature	-15°C~60°C	-15°C~60°C	-15°C~60°C

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

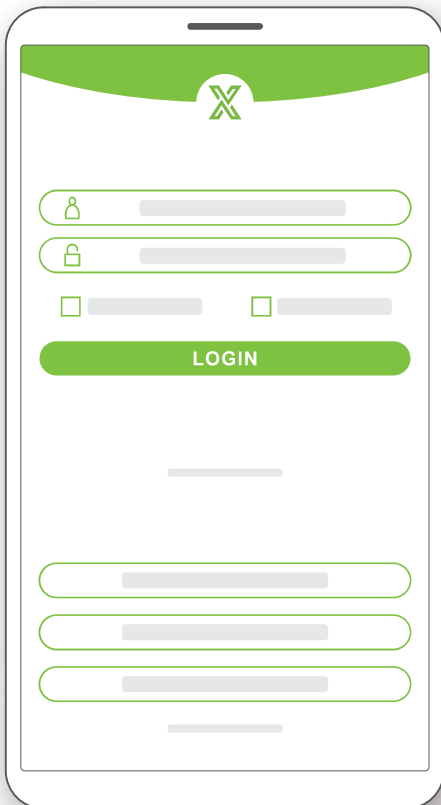
* For split phase version

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.

Certificate

Attestation of Conformity

Equipment: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: PVCE170500963-4

Use in accordance with regulations:
Power generation systems connected to the low-voltage distribution network.
Technical minimum requirements for the connection to and parallel operation with low-voltage distribution networks.

Applicable rules and standards:
DNV VDE V 9124-101 VDE V 9124-101:2012-07 - Grid integration of power generation systems - Low voltage
Test requirements for generator sets to be connected and operated parallel with the low-voltage distribution network.

VDE-AR-N 4105:2011-08 - Power generation systems connected to the low-voltage distribution network
Technical minimum requirements for the connection to and parallel operation with low-voltage distribution networks.

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

Certificate of Conformity

Certificate No.: 1784P3030034801
Equipment: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid, LXP-8K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: LD178300034-1, LD178300034-2

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and standards:
- Low Voltage Directive 2014/35/EU.

The signed test report shows that the product complies with standards recognized as giving presumption of compliance with the essential requirements in the specified European Directive.
This verification does not imply assessment of the production of the product. The CE marking may be affixed if all relevant and effective European Directives with CE are applicable.

Applicable rules and standards:
SCEN 42199-1:2016
Safety of power converters for use in photovoltaic power systems - Part 1: General requirements
SCEN 42199-2:2016
Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters
SCEN 42249-1:2016
Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

Certificate of Conformity

Certificate No.: 1784P3030034801
Equipment: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: PVCE170500963-4

Use in accordance with regulations:
Power generation systems connected to the low-voltage distribution network.
At the time of issue of this certificate the safety concept of an unbalanced representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Applicable rules and standards:
DNV VDE V 9124-101 VDE V 9124-101:2012-07
Automatic disconnection device between a generator and the public low-voltage grid

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

Test Verification of Conformity

Verification Number: 180506030GU-001

On the basis of the technical evaluation, the compliance of the below product has been found to comply with the requirements of the relevant certification standard at the time the tests were carried out. This verification is valid for the period specified in the test report and is subject to the conditions set out therein.

Applicant Name & Address: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District, Shenzhen, China

Product Description: Hybrid Inverter
Rating & Principle Characteristics: See Appendix to Test Verification of Conformity

Model/Type Designation: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid, LXP-8K hybrid

Brand Name: LUPOWER™

Specifications/Standards: EN 61683-1:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-2:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-3:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-4:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-5:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-6:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-7:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-8:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-9:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-10:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks.

Name: Gody Yu
Product Manager
Date: 25 Jan, 2019

Dichiarazione di conformità

alle prescrizioni della Norma CEI-0-21

NUMERO ORGANISMO CERTIFICAZIONE: 0101
OGGETTO: Inverter ibrido
CEI-0-21:2011
CEI-0-21:2012
CEI-0-21:2013
CEI-0-21:2014
CEI-0-21:2015
CEI-0-21:2016
CEI-0-21:2017
CEI-0-21:2018
CEI-0-21:2019
CEI-0-21:2020
CEI-0-21:2021
CEI-0-21:2022
CEI-0-21:2023
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CEI-0-21:2098
CEI-0-21:2099
CEI-0-21:2100

Numero di certificazione: 178300034
Data di emissione: 2018-05-10

Certificate of Conformity

Certificate Number: CN-PV-190005

On the basis of the test undertaken, the sample of the below product has been found to comply with the requirements of the relevant certification standards at the time the tests were carried out. It does not imply that other samples of the product have been tested or that the manufacturer has taken any other measures to ensure that the manufacturing process complies with the requirements of the product and with the essential product protection in its entirety.

Applicant Name & Address: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District, Shenzhen, China

Product Description: Hybrid Inverter
Rating & Principle Characteristics: See Appendix to Certificate of Conformity

Model/Type Designation: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid

Brand Name: LUPOWER™

Specifications/Standards: EN 61683-1:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-2:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-3:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-4:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-5:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-6:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-7:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-8:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-9:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks. EN 61683-10:2012, Requirements for energy-generating plants to be connected to public low-voltage distribution networks.

Name: Gody Yu
Product Manager
Date: 25 Aug 2019

Attestation of Conformity

Equipment: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: PVCE170500963-4

Use in accordance with regulations:
Automatic disconnection device with single-phase mains surveillance in accordance with Engineering Recommendation G522 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 automated inverter. This serves as a replacement for the disconnection device with locking function that can access the distribution network provider at any time.

Applicable rules and standards:
Engineering Recommendation G522:2012
Recommendations for the Connection of Two-Phase Small-scale Embedded Generators (up to 10A per Phase) to Mains with Low-Voltage Distribution Systems
DNV V VDE V 9124-101 VDE V 9124-101:2012-07 Functional safety
Automatic disconnection device between a generator and the public low-voltage grid

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

ATTESTATION of conformity with European Directives

Attestation Number: 1784P3030034801
Product: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid, LXP-8K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: LD178300034-1, LD178300034-2

The submitted sample of the above equipment has been tested for CE marking according to following European Directive and following standards:
- Electromagnetic Compatibility Directive 2014/53/EU

The signed test report shows that the product complies with standards recognized as giving presumption of compliance with the essential requirements in the specified European Directive.
This verification does not imply assessment of the production of the product. The CE marking may be affixed if all relevant and effective European Directives with CE are applicable.

Applicable rules and standards:
EN 55032:2012 + A1:2011
EN 55035:2012
EN 55035-2:2011
EN 55035-3:2011
EN 55035-4:2011

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

Certificate of Conformity

Certificate No.: 1784P3030034801
Equipment: Hybrid Inverter
Brand Name: LUPOWER™
Test Model No.: LXP-2K hybrid, LXP-4K hybrid, LXP-6K hybrid
Applicant: Shenzhen Lxp Power Technology Co., Ltd.
Room 403, 4th Floor, Building 83, Zhongguo New Industrial Park, Zhongguo Community/Huangsheng Street, Baotou District/Shenzhen

Report No.: PVCE170500963-4

Use in accordance with regulations:
Automatic disconnection device with single-phase mains surveillance in accordance with Engineering Recommendation G522-2 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 automated inverter. This serves as a replacement for the disconnection device with locking function that can access the distribution network provider at any time.

Applicable rules and standards:
Engineering Recommendation G522:2012
Recommendations for the Connection of Generating Plant to the Distribution Systems of Limited Distribution Network Operators
At the time of issue of this certificate the safety concept of an unbalanced representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Name: Ted Wu
Senior Manager PV Inverter Team
Date: 2018-05-10

Application



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*Where sun shined
Power always on*

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