

# Your Reliable Energy Solution Partner

## Authorised Dealer :

### NAMMA SOLAAR

No.9, Vinayaka Layout,  
Doddanagamangala  
Electronic city,  
Bangalore 560100

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“There are over **50000+**  
Luxpower systems installed all over the world,  
in hybrid/AC couple/Off-grid scenarios. We are  
committed to making our users benefit from  
the sun and enjoy life.”



# Hybrid Series

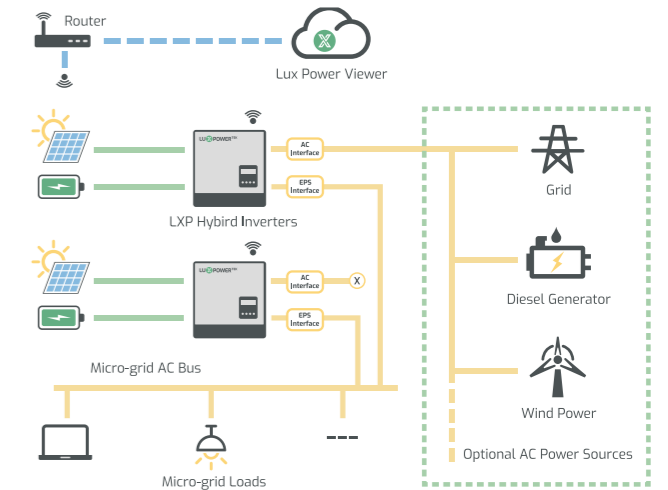
- Hybrid LXP 3-6kW
- Hybrid LXP-LB-US 12kW  
LXP-LB-EU 12kW  
LXP-HB-US 12kW  
LXP-HB-EU 12kW
- Hybrid LXP 4-6kW HB
- ECO Hybrid SNA 3-5kW

## Hybrid Series How it works

### / System Connection

A newly designed solar and energy storage hybrid inverter, installed in on-grid solar, off-grid solar and back-up systems.

LXP Hybrid enables a programmable and schedulable smart solar energy storage system to help increase your solar energy self-consumption rate, protect your home appliances from grid outage, and balance your energy usage strategy to save energy bill.

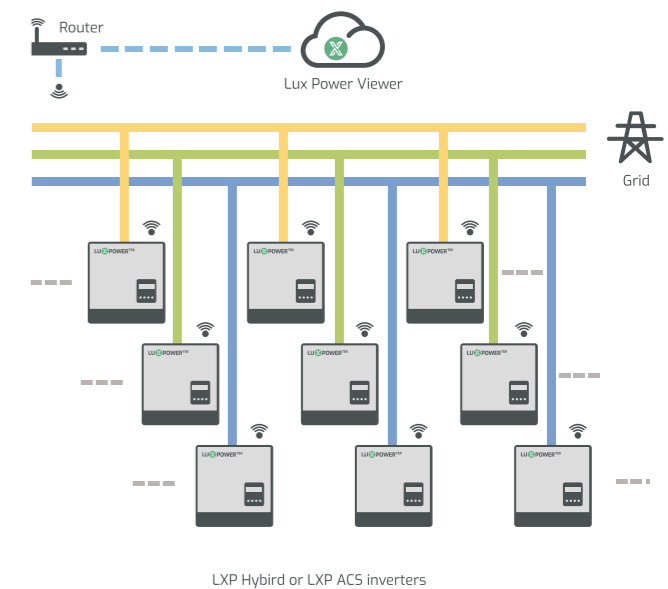


### / Parallel Connection

**Paralleling LXP inverters** in one phase to extend the single phase system capacity for either hybrid or AC coupled energy storage applications.

**Paralleling LXP inverters** (single phase inverters) to build a three phase system for either hybrid or AC coupled energy storage applications.

**Smart paralleling** algorithm enable multiple configurable working modes under on-grid, off-grid or micro-grid applications.



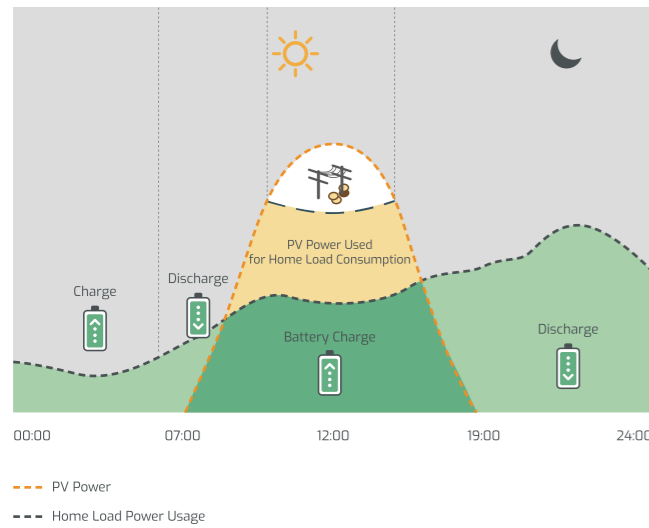
## Hybrid Series

# How it works

## / Force Time Use

Force time use mode, where there is a big difference tariff times.

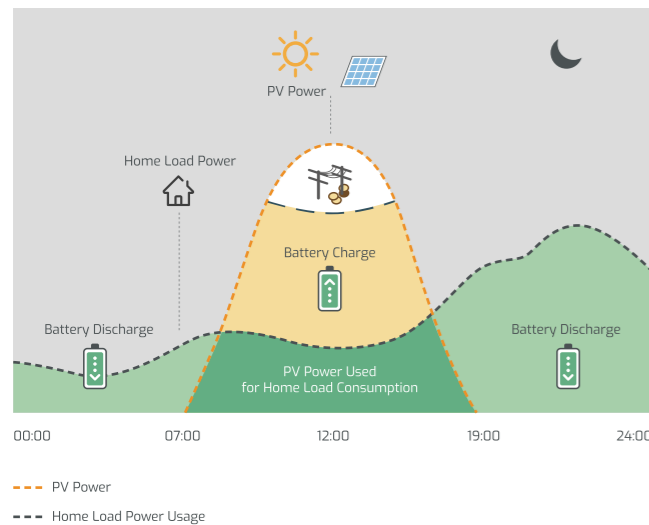
This mode suits for situation where the price difference of energy is big. User can set the charging and discharging time and priority of energy use under Force Time Use mode. The user can also choose whether to charge the battery using grid power if the regulations permitted.



## / Self Consumption

Under self consumption mode the energy generated by PV will be mainly used by local loads, and rest will be stored in the battery, excessive power will be fed back into the grid.

This is the default mode which will increase the self consumption rate and reduce the energy bill significantly.



# Hybrid Series

## Intelligent working modes

- Self consumption mode for high tariff areas
- Charge priority mode for areas where grid power is unstable
- Force charge & discharge mode for areas where tariff varies by time

## Smart EPS

- Plug & Play, seamless switching under 10ms
- Sufficient backup power for emergency use

## Easy to use with battery

- Remote upgrade BMS firmware
- Wide range of compatible battery brands
- Wake up lithium battery from sleep mode
- Essential info uploaded to Lux server for quick ESS diagnosis
- Battery sharing with multi-inverters in single phase or three phase

## Advanced Parallel

- Up to 10 units parallel, expandable to 120kW
- Single phase and unbalanced three phase paralleling

## Key Features

- Light, fast & easy installation
- Free & handy monitoring on mobile / PC
- Multi phases output on different hybrid models
- Generator interface available

# Hybrid Inverter

# LXP3-6k



Your Reliable  
Energy Solution  
Partner

- Intelligent working modes
- Stronger EPS
- Easy to use with battery
- Advanced Parallel, up to 60kW
- IP65, indoor & outdoor use
- Plug & Play, seamless switching under 10ms



## Specification

Solar	LXP3K	LXP3.6K/4k	LXP4.6K/5K	LXP6K
Max. DC Input Power	6600W	7000W	8000W	8000W
Nominal DC Input Voltage	360V.d.c	360V.d.c	360V.d.c	360V.d.c
DC Input Voltage Range	100 - 550V.d.c	100 - 550V.d.c	100 - 550V.d.c	100 - 550V.d.c
MPPT Voltage Range	100 - 500V.d.c	100 - 500V.d.c	100 - 500V.d.c	100 - 500V.d.c
Start-up Voltage	120V.d.c	120V.d.c	120V.d.c	120V.d.c
MPPT Number	2	2	2	2
Max. DC Input Current	13A/13A	13A/13A	13A/13A	13A/13A
Battery				
Compatible Battery Type	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid
Nominal Battery Voltage	48V.d.c	48V.d.c	48V.d.c	48V.d.c
Battery Voltage Range	40 - 60V.d.c	40 - 60V.d.c	40 - 60V.d.c	40 - 60V.d.c
Max. Charge/Discharge Current	66A/66A	66A/66A	80A/80A	80A/80A
Max. Charge/Discharge Power	3600W/3600W	3600W/3600W	4000W/4000W	4000W/4000W
Charging Curve	3 stages	3 stages	3 stages	3 stages
Max. Charge Voltage	59V	59V	59V	59V
Capacity of Battery	2-20kWh	2-20kWh	2-20kWh	2-20kWh
Grid				
Nominal AC Output Power	3000W	3600W/4000W	4600W/5000W	6000W
Max. AC Output Power	3000VA	3600VA/4000VA	4600VA/5000VA	6000VA
Max. AC Output Current	15A	16A/20A	25A	26A
Nominal AC Voltage	230V.a.c	230V.a.c	230V.a.c	230V.a.c
AC Voltage Range	180 - 270V.a.c	180 - 270V.a.c	180 - 270V.a.c	180 - 270V.a.c
Nominal AC Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
AC Frequency Range	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz
Power Factor	Adjustable 0.8 overexcited to 0.8 underexcited			
THDI	<3%	<3%	<3%	<3%
EPS				
UPS Max. Output Power without Solar	3000W	3600W/4000W	4000W	4000W
UPS Max. Output Power with Solar	3000W	3600W/4000W	5000W	6000W
UPS Nominal Output Voltage	230V.a.c	230V.a.c	230V.a.c	230V.a.c
UPS Nominal Output Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
UPS Nominal Output Current	13A	15.6A/17.4A	17.4A	17.4A
Peak Power Without Solar	4500W, 30s	4500W, 30s	4500W, 30s	4500W, 30s
THDV	<5%	<5%	<5%	<5%
Switching Time	Typical 0.01s	Typical 0.01s	Typical 0.01s	<0.01s
Efficiency				
Europe Efficiency	97.5%	97.5%	97.5%	97.5%
Max. Efficiency	97.9%	97.9%	97.9%	97.9%
Battery Charge/Discharge Efficiency	94.5%	94.5%	94.5%	94.5%
Protection				
Reverse Polarity Protection	Yes	Yes	Yes	Yes
Over Current/Voltage Protection	Yes	Yes	Yes	Yes
Anti-islanding Protection	Yes	Yes	Yes	Yes
AC Short-circuit Protection	Yes	Yes	Yes	Yes
Leakage Current Protection	Yes	Yes	Yes	Yes
Ground Fault Monitoring	Yes	Yes	Yes	Yes
Grid Monitoring	Yes	Yes	Yes	Yes
Ingress Protect Degree	IP65 / NEMA4X	IP65 / NEMA4X	IP65 / NEMA4X	IP65 / NEMA4X
DC Switch	Yes	Yes	Yes	Yes
General				
Dimensions (W/H/D)	455 / 476 (565) / 181	455 / 476 (565) / 181	455 / 476 (565) / 181	455 / 476 (565) / 181
Weight	20 kg	20 kg	20 kg	20 kg
Topology	Transformerless (solar), HF (Battery)			
Cooling Concept	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	0-100%	0-100%	0-100%	0-100%
Operating Temperature Range	-25 - 60	-25 - 60	-25 - 60	-25 - 60
Altitude	<2000m	<2000m	<2000m	<2000m
Noise Emission	<25dB	<25dB	<25dB	<25dB
Standby Consumption	<5W	<5W	<5W	<5W
Display & Communication Interfaces	LCD, RS485, Wi-Fi, CAN	LCD, RS485, Wi-Fi, CAN	LCD, RS485, Wi-Fi, CAN	LCD, RS485, Wi-Fi, CAN

# Hybrid Inverter

# LXP-LB-US 12kW LXP-LB-EU 12kW



Your Reliable  
Energy Solution  
Partner

- 12kW EPS Output
- 10 units Paralleling
- AC Coupling Function
- 3 MPPT Input for max input 18kW
- Separated Generator Input
- 200A AC Passthrough Current
- PV Module Monitoring
- Peak Shaving Function
- Color LCD, Touch Screen



## Specification

### Battery Parameters

Compatible Battery Type  
Nominal Battery Voltage  
Battery Voltage Range  
Maximun Charging/Discharging Current  
Maximun Charging/Discharging Power

### LXP-LB 12K

Lead-acid/Lithium  
48V  
40V-60V  
250A/250A  
12000W

### Input DC(PV Side)

Max. DC Input Power for Single MPPT  
Max. PV Input Power  
DC Input Voltage Range  
Nominal DC Input Voltage  
Full Power MPPT Voltage Range  
Max. DC Input Current  
MPPT Number/(Strings per MPPT)

12000W/7000W/7000W  
18000W  
100V-600V  
360V  
230-500V  
25A/15A/15A  
3(2/1/1)

### Output/Inout AC(Grid)

Nominal Power  
Nominal AC Voltage  
Operating Voltage Range  
Max. Continuous AC Current  
Nominal AC Frequency

12000W  
240V  
208V  
180V-270V  
50A@240V  
50A@208V  
50Hz/60Hz

### UPS Output-with Battery

UPS Max. Output Power  
UPS Nominal Output Voltage  
UPS Nominal Output Frequency  
UPS Nominal Output Current  
Peak Power  
Switching Time

12000W  
240V  
208V  
120V/240V  
120V/208V  
50Hz/60Hz  
50A@240V  
57.7A@208V  
14kW 10minutes / 16kW 5minutes / 20kW 500ms  
<20ms

### Efficiency

MPPT Efficiency  
Max. Efficiency  
EU Efficiency  
Battery Charging Efficiency  
Battery Discharging Efficiency

99.9%  
97.5%  
96.5%  
95%  
94.5%

### Protection

Anti-islanding Protection  
DC Switch  
Ingress Protect Degree  
SPD Protection  
AFCI  
RSD

YES  
YES  
IP65  
YES  
OPT  
OPT

### General Data

Dimension(mm)  
Weight  
Display  
Topology  
Ambient Temperature Range  
Cooling  
Communication

670\*490\*265  
42kg  
Color LCD  
Transformer-less  
-25-60°C  
FAN  
RS485/Wi-Fi/CAN

### Standard & Certification

EMC  
Safety Standard  
Grid Standards

IEEE1547 FCC SDOC  
UL 1741  
IEEE1547



# Hybrid Inverter

# LXP-HB-US 12kW LXP-HB-EU 12kW



Your Reliable  
Energy Solution  
Partner

- High battery voltage
- 12kW EPS Output
- 10 units Paralleling
- AC Coupling Function
- 3 MPPT Input for max solar input 18kW
- Separated Generator Input
- 200A AC Passthrough Current/100A Generator
- Passthrough current
- PV Module Monitoring
- Peak Shaving Function
- Color LCD, Touch Screen



## Specification

### Battery Parameters

Compatible Battery Type	Lead-acid/Lithium
Nominal Battery Voltage	380V
Battery Voltage Range	250-480V
Maximum Charging/Discharging Current	42A/42A
Maximum Charging/Discharging Power	12000W
Max. Charging Voltage	480V

### LXP-HB 12K

### Input DC(PV Side)

Max. DC Input Power for Single MPPT	12000W/7000W/7000W
Max. PV Input Power	18000W
DC Input Voltage Range	100V-600V
Nominal DC Input Voltage	360V
MPPT Operating Voltage Range	120-500V
Full Power MPPT Voltage Range	230-500V
FS start-up Voltage(Ongrid)	140V
Max. DC Input Current	25A/15A/15A
MPPT Number/(Strings per MPPT)	3(2/1/1)

### Output/Inout AC(Grid)

Nominal Power	12000W
Nominal AC Voltage	240V 208V
Operating Voltage Range	180V-270V
Max. Continuous AC Current	50A@240V 50A@208V
Nominal AC Frequency	50Hz/60Hz
THDI	<3%
Power Factor	-0.8~+0.8 adjustable

### UPS Output-with Battery

UPS Max. Output Power	12000W 240V 208V
UPS Nominal Output Voltage	120V/240V 120V/208V
UPS Nominal Output Frequency	50Hz/60Hz
UPS Nominal Output Current	50A@240V 57.7A@208V
Peak Power	1.1xPn,5min / 1.25xPn,1min / 1.5xPn,1s / 2xPn,0.1s
THDV	<3%
Switching Time	<20ms

### Efficiency

MPPT Efficiency	99.9%
Max. Efficiency	97.5%
EU Efficiency	96.5%
Battery Charging Efficiency	96%
Battery Discharging Efficiency	95%

### Protection

Reverse Polarity Protection	YES
Anti-islanding Protection	YES
AC Short-circuit Protection	YES
Leakage Current Protection	YES
Grid Monitoring	YES
DC Switch	YES
Ingress Protect Degree	IP65
SPD Protection	YES
AFCI	OPT
RSD	OPT

### General Data

Dimension(mm)	670*490*265
Weight	42kg
Display	Color LCD
Topology	Transformer-less
Ambient Temperature Range	-25-60°C
Standby losses	<15W
Cooling	FAN
Communication	RS485/Wi-Fi/CAN

### Standard & Certification

EMC	IEEE1547 FCC SDOC
Safety Standard	UL 1741
Grid Standards	IEEE1547



# High Voltage Hybrid Inverter

## LXP4-6k HB



Your Reliable Energy Solution Partner

- High voltage, higher efficiency
- Intelligent working modes
- Stronger EPS
- Easy to use with battery
- IP65, indoor & outdoor use
- Free monitoring & remote upgrade
- Advanced Parallel, up to 60kW
- Plug & Play, seamless switching under 10ms



## Specification

Solar	LXP4k HB	LXP5k HB	LXP6k HB
Max. DC Input Power	7000W	8000W	8000W
DC Input Voltage Range	90-550V.d.c	90-550V.d.c	90-550V.d.c
Grid Full-load MPPT Voltage	100 - 500V.d.c	100 - 500V.d.c	100 - 500V.d.c
Start-up Voltage	120V.d.c	120V.d.c	120V.d.c
MPPT Number	2	2	2
String per MPPT	1/1	1/1	1/1
Max. DC Input Current	12.5A/12.5A	12.5A/12.5A	12.5A/12.5A
Battery	LXP4k HB	LXP5k HB	LXP6k HB
Compatible Battery Type	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.	Lead-Acid, Li-on etc.
Nominal Battery Voltage	250V.d.c	250V.d.c	250V.d.c
Battery Voltage Range	90 - 450V.d.c	90 - 450V.d.c	90 - 450V.d.c
Max. Charge/Discharge Current	20A/20A	25A/25A	25A/25A
Max. Charge/Discharge Power	4000W/4000W	5000W/5000W	6000W/6000W
Charging Curve	3-stages	3-stages	3-stages
Grid	LXP4k HB	LXP5k HB	LXP6k HB
Nominal AC Output Power	4000W	5000W	6000W
Nominal AC Output Current	17.5A	21.7A	26A
Max. AC Output Current	22A	27A	30A
Nominal AC Voltage	230V	230V	230V
Optional AC Voltage Range	183~264V	183~264V	183~264V
Nominal AC Frequency	50/60Hz	50Hz / 60Hz	50Hz / 60Hz
AC Frequency Range	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Power Factor	>0.99@rated power 0.8lagging-0.8 leading Adjustable		
THDI	<3%	<3%	<3%
EPS	LXP4k HB	LXP5k HB	LXP6k HB
UPS Nominal Power	4000W	5000W	6000W
UPS Nominal Voltage	230Vac	230Vac	230Vac
UPS Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
UPS Nominal Current	17.5A	21.7A	21.7A
Peak Power	5000W, 30s	6200W, 30s	6900W, 30s
THDV	<3%@R-load	<3%@R-load	<3%@R-load
Switching Time	Typical 0.01s	Typical 0.01s	Typical 0.01s
Efficiency	LXP4k HB	LXP5k HB	LXP6k HB
MPPT Efficiency	>99%	>99%	>99%
Europe Efficiency	96.5%	96.3%	96.3%
Max. Efficiency	97.5%	97.5%	97.5%
Max. Charge/Discharge Efficiency	97%/ 96.6%	97%/ 96.6%	97%/ 96.6%
Protection	LXP4k HB	LXP5k HB	LXP6k HB
Reverse Polarity Protection	Yes	Yes	Yes
Over Voltage,Over Current	Yes	Yes	Yes
Anti-islanding Protection	Yes	Yes	Yes
AC Short-circuit Protection	Yes	Yes	Yes
Leakage Current Protection	Yes	Yes	Yes
Ground Fault Monitoring	Yes	Yes	Yes
Grid Monitoring	Yes	Yes	Yes
Ingress Protect Degree	IP65	IP65	IP65
DC Switch	Integrated	Integrated	Integrated
General	LXP4k HB	LXP5k HB	LXP6k HB
Dimensions (W/H/D)	455 / 476 / 181	455 / 476 / 181	455 / 476 / 181
Weight	20 kg	20 kg	20 kg
Topology	Transformerless	Transformerless	Transformerless
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	0-100%	0-100%	0-100%
Altitude	<2000m	<2000m	<2000m
Noise Emission	<25dB	<25dB	<25dB
Standby Consumption	<10W	<10W	<10W
Display/Communication Interface	LCD/ LED/RS485/ Wi-Fi/ CAN	LCD/ LED/RS485/ Wi-Fi/ CAN	LCD/ LED/RS485/ Wi-Fi/ CAN
Standard Warranty	5 year	5 year	5 year



# ECO Hybrid SNA3-5k



With thousands of hybrid inverters & AC units installed around the world.

Lux power has stepped even further to bringing power to every home, with or without grid power.

ECO Hybrid SNA 3-5K is now available for homes without grid. Inquire your local distributor, re-organize your power at home. No more blackouts.



# ECO Hybrid How it works

Your Reliable  
Energy Solution  
Partner

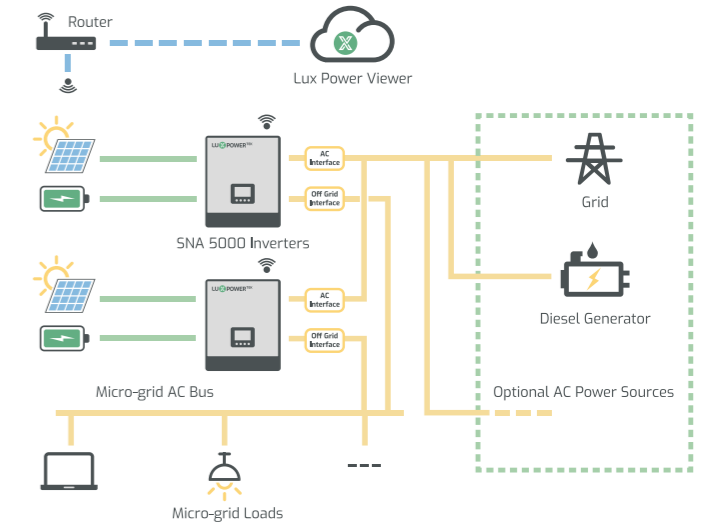
## / System Connection

Off grid system is a good solution for the area where the grid power is unstable or there is no electricity at all.

Advantage of solar power:

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

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

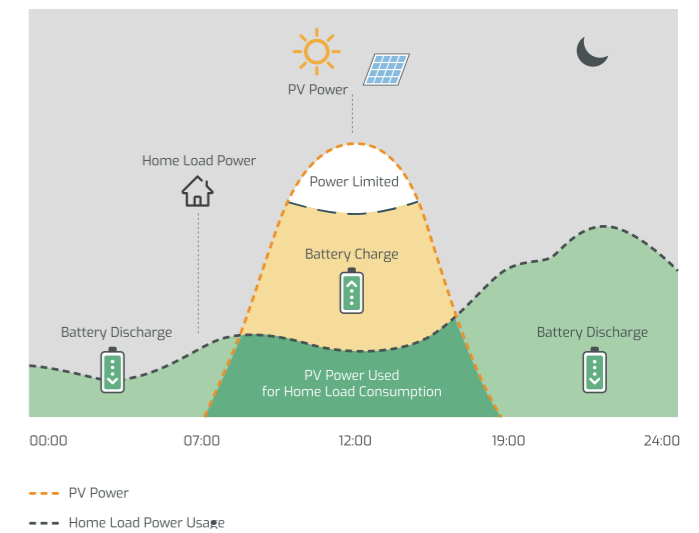


## / Working Mode

SNA 3-5kW series 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 using AC 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.



# Reclaim Your Power

## ECO Hybrid SNA3-5k

- Intelligent offgrid & hybrid modes
- PV & AC power loads simultaneously
- Wide PV input voltage range
- Easy to use with battery
- Free monitoring & remote upgrade
- Single phase or unbalanced three phase
- Advanced Parallel, up to 50kW
- Separate generator interface available
- Host inverter automatically generated to manage entire system

## Specification

Your Reliable  
Energy Solution  
Partner

Output	SNA3000	SNA4000	SNA5000
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
Wave form	Pure sine wave	Pure sine wave	Pure sine wave
Battery			
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			
Max. Recommended PV Power	3200W/3200W	3200W/3200W	3200W/3200W
MPPT Tracker	2	2	2
DC Input Voltage Range	100-480Vdc	100-480Vdc	100-480Vdc
MPPT Voltage Range	100-385Vdc	100-385Vdc	100-385Vdc
Start-up Voltage	120Vdc	120Vdc	120Vdc
Max. Solar Charge Current	110A	110A	110A
Max. Solar Input Current	13A/13A	13A/13A	13A/13A
Max. MPPT Efficiency	>98%	>98%	>98%
Grid			
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			
Dimensions(W/H/D)	330x504x135mm	330x504x135mm	330x504x135mm
Weight	14Kg	14Kg	14Kg
Protection Degree	IP20	IP20	IP20
Relative Humidity	5%~95% Relative Humidity (Non-condensing)		
Operating Temperature	0°C~50°C	0°C~50°C	0°C~50°C
Storage Temperature	-15°C~60°C	-15°C~60°C	-15°C~60°C
Inter			
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	2 year	2 year	2 year

\*For Split phase version

# AC Coupled Series

- LXP ACS 3600
- LXP SQPOD 3600

One Step  
to Retrofit  
Your Solar System

## AC Coupled Series

# How it works



### Smart EPS

- Plug & Play, seamless switching under 10ms
- Sufficient backup power for emergency use



### Advanced Parallel for SQPOD

- Up to 10 units parallel, expandable to 36kW
- Single phase and unbalanced three phase paralleling
- Host inverter automatically generated to manage entire system



### Intelligent working modes

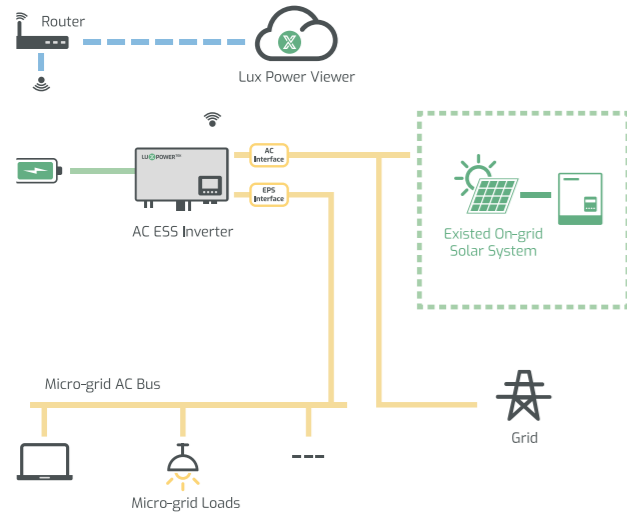
- Self consumption mode for high tariff areas
- Charge priority mode for areas where grid power is unstable
- Force charge & discharge mode for areas where tariff varies by time



### Easy to use with battery

- Remote upgrade BMS firmware
- Wide range of compatible battery brands
- Wake up lithium battery when battery shutdown
- Essential info uploaded to Lux server for quick ESS diagnosis
- Flexible connections with battery, group or split both accessible

**A real plug & play unit that helps you do all in one step.**



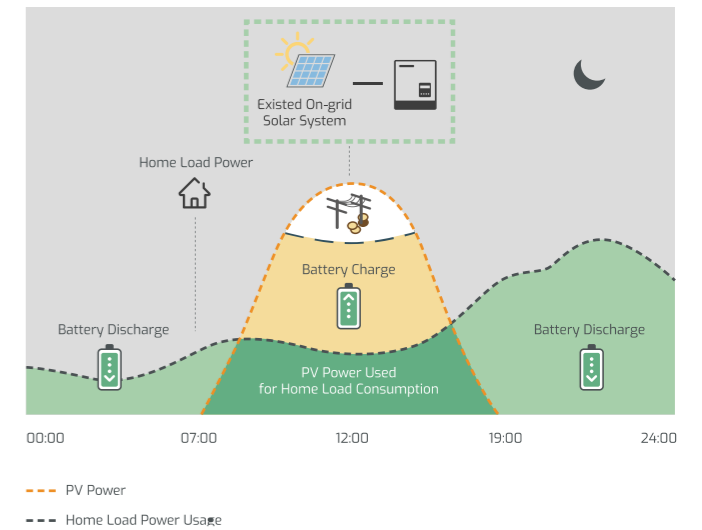
## / System Connection

To retrofit existing on-grid solar system to energy storage hybrid system.

It couldn't be easier than installing a LXP. AC series inverter coupled on AC side with a battery pack.

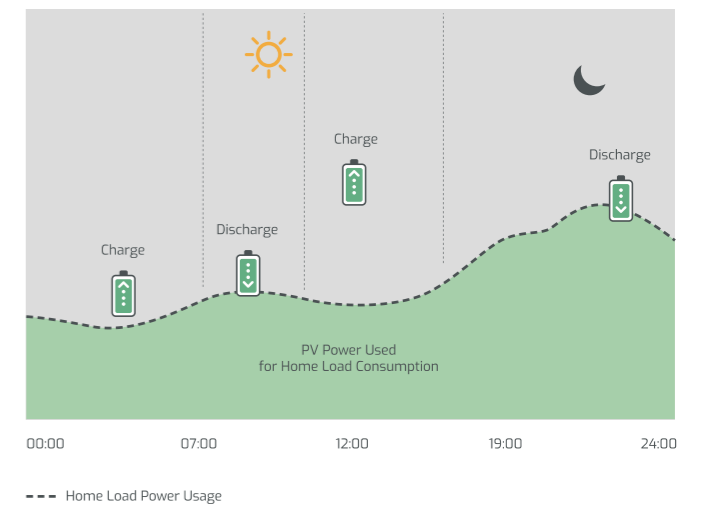
## / Self Consumption

Under self use mode, AC coupled inverter will detect the power of on-grid inverter generated, which will be used by local loads first, and rest will be stored in the battery by using AC coupled inverter. Excessive power will be fed back into the grid. This is the default mode which will increase the self consumption rate and reduce the energy bill significantly.



## / Force Time Use

This mode suits for situation where the price difference of energy is big. User can set the charging and discharging time and priority of energy use under Force Time Use Mode. The user can also choose whether to charge the battery using grid power if the regulations permitted.



# AC Coupled Inverter

# LXP ACS 3600



Your Reliable Energy Solution Partner

- Stronger EPS
- Intelligent working modes
- Generator interface available
- Easy to use with battery
- IP65, indoor & outdoor use
- Free monitoring & remote upgrade
- Retrofit any on-grid systems to be able to run battery
- Plug & Play, seamless switching under 10ms



## Specification

Battery	ACS 3.6k
Compatible Battery Type	Lithium-ion, Lead-Acid etc.
Nominal Battery Voltage	48V.d.c
Max. Charging Voltage(V)	<=60 V(Configurable)
Max. Charge/Discharge Current	70A / 70A
Battery Capacity(Ah)	100Ah
Charging Mode for Li-Ion Battery	Self-adaption to BMS
Charging for Lead-acid Battery	3-stage adaptive with maintenance
Battery Back Feed Current	0A
Grid	
Nominal AC Output Power to Utility	3600VA
Max. AC Output Power to Utility	3600VA
Max. AC Input Power from Utility	5980VA
Max. AC Output Current to Utility	16A
Max. AC Input Current From Utility	26A
Nominal Output Voltage	220/230V.a.c
AC Voltage Range	180 - 270V.a.c
Nominal AC Frequency	50Hz/60Hz
AC Over Current Protection	31A
Power Factor	1(adjustable 0.8leading -0.8lagging)
THDI	<3%
AC Over Voltage Category	Category III
EPS	
Max. Output Power	3600VA
Nominal Output Voltage	230V.a.c
Nominal Output Frequency	50Hz / 60Hz
Max. Output Current	16A
Peak Power	4500VA, 30s
THDV(linear load)	<3%
Switching Time	Typical 0.01s
Back-up Over Current Protection	31A
Efficiency	
Max. Charge / Discharge Efficiency	96%
Protection	
Reverse Polarity Protection	YES
Over Current/Voltage Protection	YES
Anti-islanding Protection	YES
AC Short-circuit Protection	YES
Leakage Current Protection	YES
Ground Fault Monitoring	YES
Grid Monitoring	YES
Ingress Protection Degree	IP65 / NEMA4X
General	
Dimension(mm)	650*440*220
Weight	15.6 kg
Topology	HF
Cooling Concept	Natural Convection
Relatively Humidity	100%
Altitude	<2000m
Noise Emission	<25dB
Standby Consumption	<5W
Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi, CAN
Standards	G83, G100,CE,SAA EN61000-6-3

- Stronger EPS
- Intelligent working modes
- Generator interface available
- IP65, indoor & outdoor use
- Free monitoring & remote upgrade
- Advanced Parallel, up to 36kW
- Plug & Play, seamless switching under 10ms
- Retrofit any on-grid systems to be able to run battery



## Lux Power Battery Storage *Agile Auto Charge*

Lux Power with Infinity Innovations Ltd. have developed an Agile Auto Charge (AAC) to allow automatic off peak charging using the cheapest rates available. This is a Beta system and therefore reacts to data provided by Octopus. Lux Power have no involvement or responsibility for content or timing of the information provided. It is recommended that you read the Octopus Blog regarding all systems approved as compatible with Octopus -

<https://octopus.energy/blog/works-with-octopus/>

The AAC analyses the times and prices of the electricity information published by Octopus Energy and ranks the information according to price. You can therefore just input the number of charge periods you want to use, and they system will automatically charge using only the cheapest periods.

### Simple to programme

Agile Auto Charge will appear on your Lux Power Portal once activated by Infinity Innovations Ltd. Simply select the quantity of 30 mins charge periods you require for Night or Day charging and press save!

### Night Charge - from midnight to 6am.

Select how many charge periods you want and your system will automatically be set to charge for that number of periods during only the cheapest prices.

### Day Charge - from 12 noon to 4 pm.

This will allow you to 'top-up' your batteries ready to get through the more expensive On Peak periods.

### Blocking Discharge

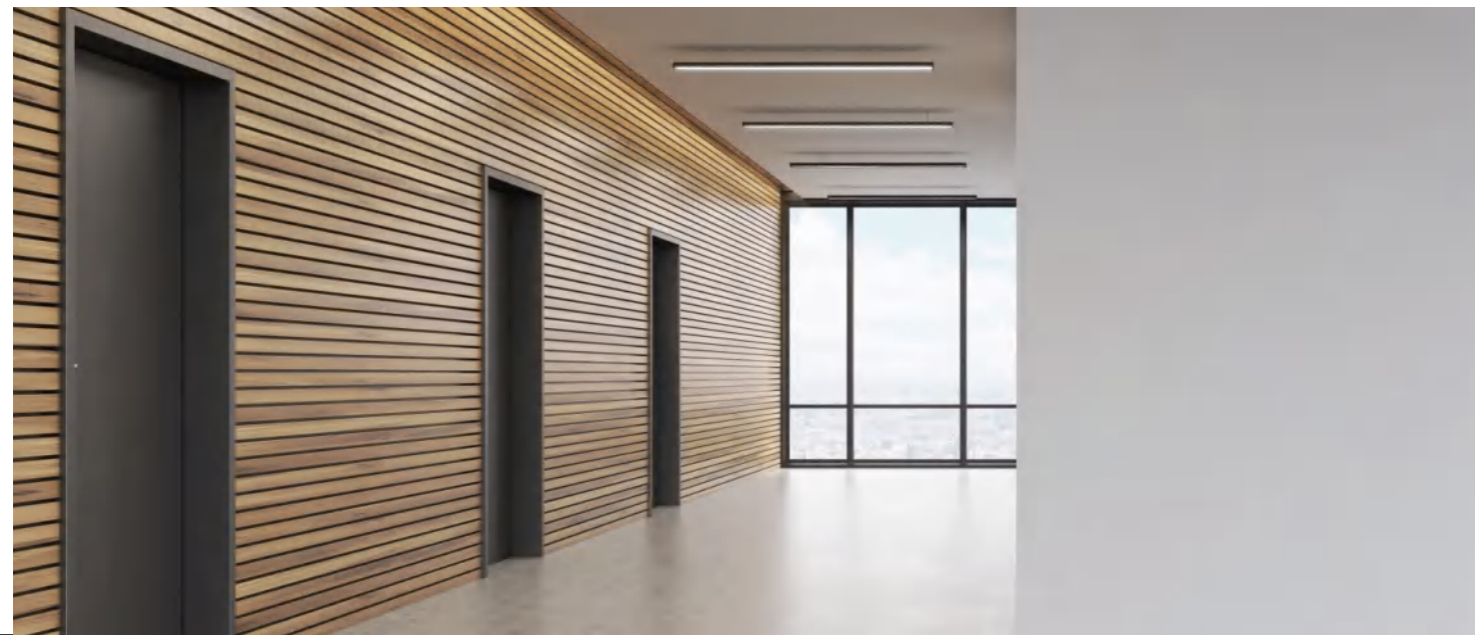
You can also set periods where the batteries can charge but will not discharge. For example block discharging from midnight to 6am and your batteries will charge using only the cheapest rates but will not discharge. So you can set all heavy usage items – washing machines, dish washers, EV charging etc. to also run at night without emptying your batteries. Using this function you can ensure your batteries are 100% charged ready cover your house load at 6.am.

- **Retrofit on grid system to energy storage hybrid system**
- **DC coupled, 24strings Solar input and 12 strings output**
- **Advanced power management**
- **IP65 design, quick installation**
- **Touch screen, free monitor**
- **Handy apps available on mobile**
- **Flexible account settings for multi level type users**



## Specification

Input	LSP 100k
Max. input power	200kW
Max. input voltage	1,000V
input nominal voltage	630V
input voltage range	300-1000V
Start voltage	330V
Max. short current per MPPT	40A
Max current per MPPT input	26A
Number of MPPT tracks	12
Number of input strings	24
Output	
DCDC output rated power	100kW
Normal output voltage	650V
Output voltage range	500-1000V
Max output current	20A
Output strings	12
Output tracks	12
Battery	
Type	Lead-acid/Lithium
MAX charge and discharge power	100kW
Voltage range	300-700Vdc
MAX charge and discharge current	200A
Max charge and discharge efficiency	98.7%(TBD)
Protection	
DC Reverse-polarity Protection	Yes
DC Surge Arrester	Type II
Communication	
Display	LED+LCD/Touch botton
WiFi	Yes
General	
Dimensions (W x H x D)	TBD
Weight (with mounting plate)	TBD
Protection Degree	IP65
Topology	Transformerless
Cooling Method	Air cooling
Relative Humidity	0%~100% Relative Humidity(Non-condensing)
Operating Temperature Range	-25°C ~ 60°C
Connector(PV input and Output)	Amphenol UTX
Max. Operating Altitude	2000m
Warranty	5 year
Standards	EN 62109-a1/-2, IEC 62109-1/-2



# Top Energy Storage App

Nominated by LeapDroid UK

<https://leapdroid.com/?p=6076>



Android



IOS



# Intelligent Power Management System

Luxpower has dedicated to making things easier since day 1.

Thanks to the greatly accessible monitor and management,

All needs from users, installers, distributors, can be met.



5th floor, A Zone Of Building 11,  
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# Certificate



# Your Reliable Energy Solution Partner