

Your Reliable Energy Solution Partner



"There are over **20000**

Luxpower units installed all over the world in residential, commercial and industrial applications. Luxpower is committed to making our users' lives easier and more sustainable by providing a wide range of hybrid/AC couple/off-grid scenarios. We are committed to making our users' lives easier and more sustainable by providing a wide range of hybrid/AC couple/off-grid scenarios. We are committed to making our users' lives easier and more sustainable by providing a wide range of hybrid/AC couple/off-grid scenarios.

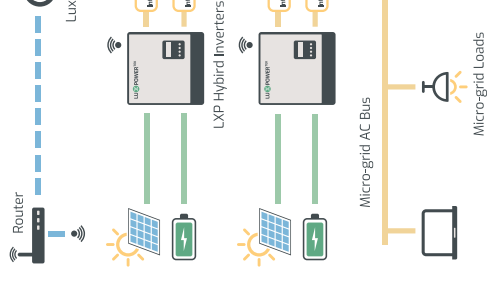


- Hybrid LXP 3-6kW
- Hybrid LXP 8-12kW / 8-12kW US
- Hybrid LXP 4-6kW HB
- ECO Hybrid SNA 3-5kW

/ 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.

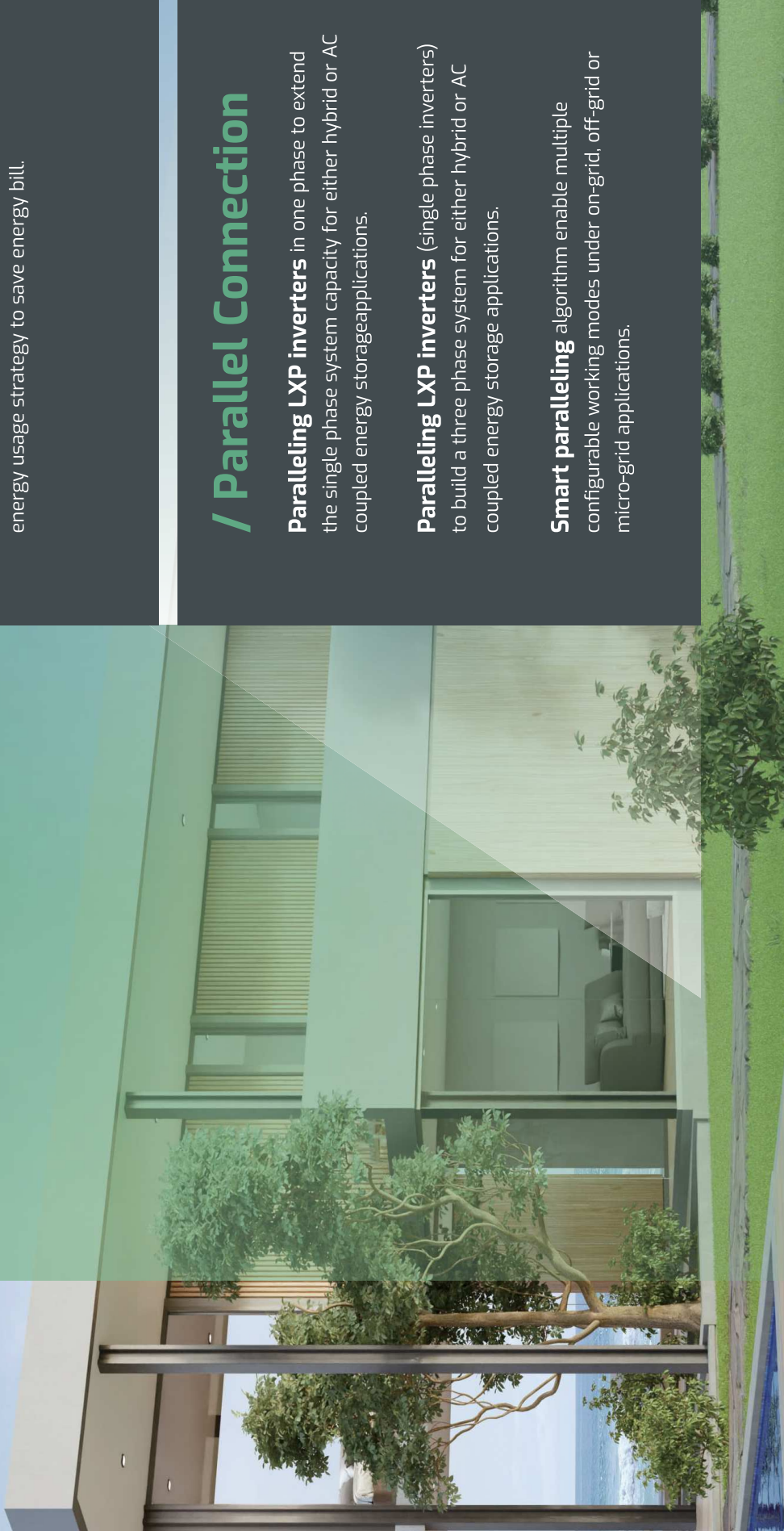
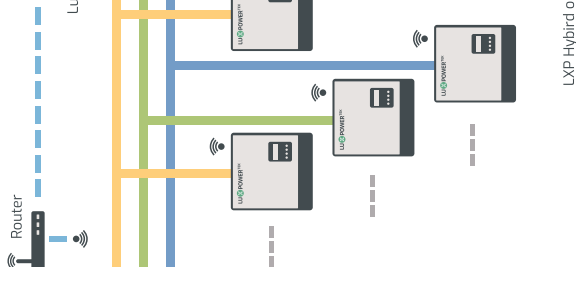


/ Parallel Connection

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.

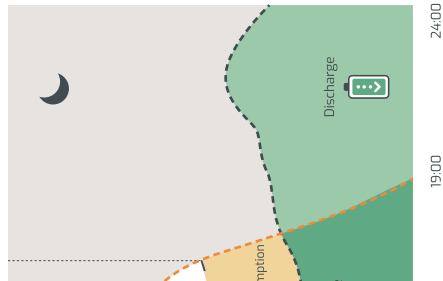
Smart paralleling algorithm enable multiple configurable working modes under on-grid, off-grid or micro-grid applications.



/ Force Time Use

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

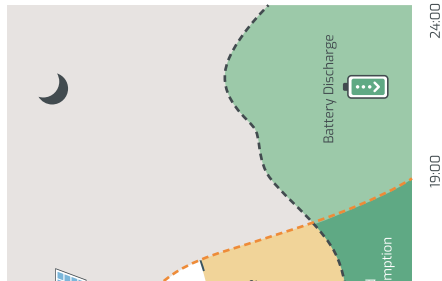
This mode suits for situation where the price difference of energy is big. User can set the charging and discharging time and priority of energy use under Force Time Use mode. The user can also choose whether to charge the battery using grid power if the regulations permitted.



/ 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.



Key Feature

- Light, fast & easy installation
- Free & handy monitoring
- Multi phases output on demand
- Generator interface available

Smart EPS

- Plug & Play, seamless switchover
- Sufficient backup power for 10 minutes

Advanced Protection

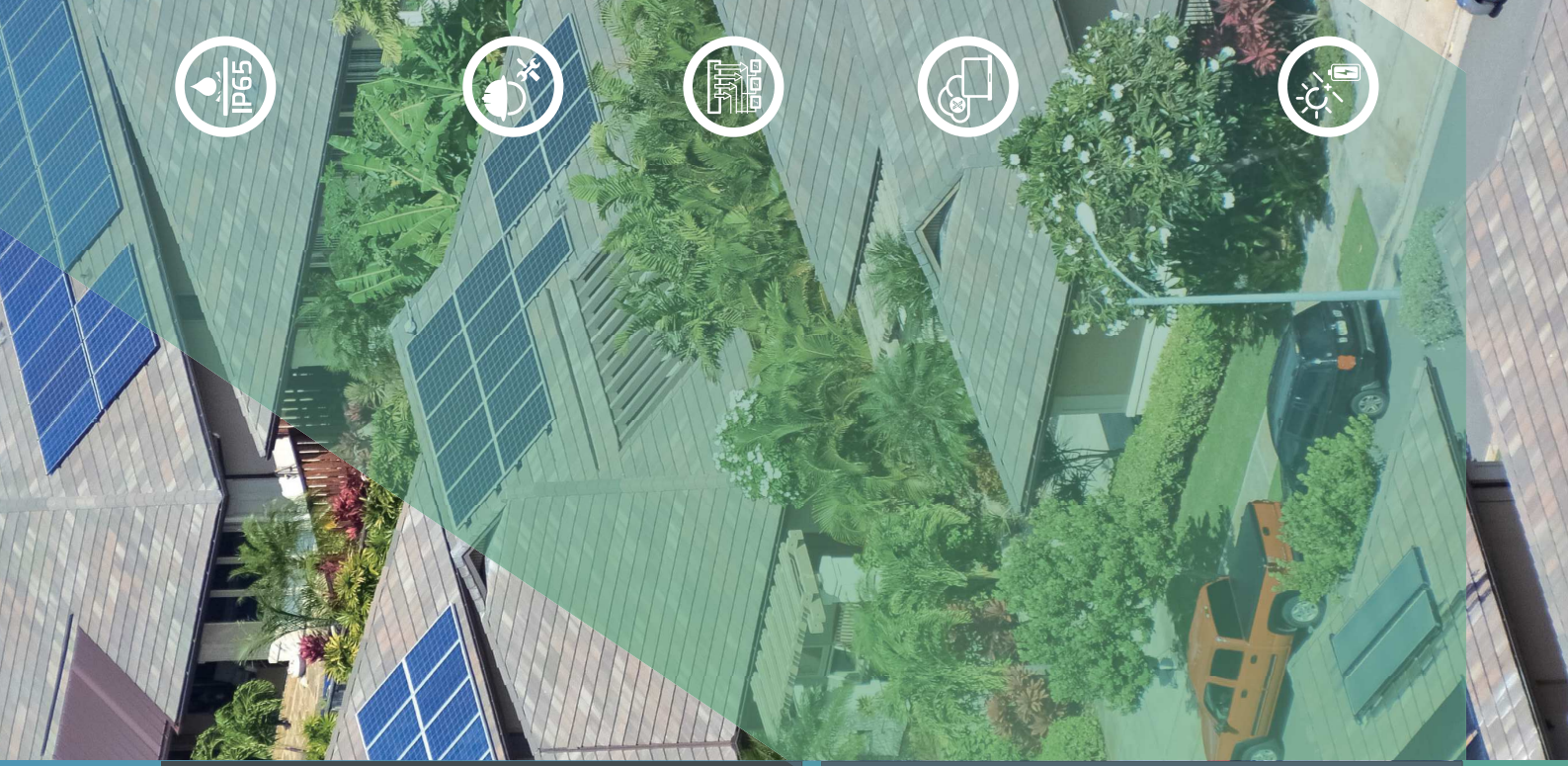
- Up to 10 units parallel, expansion friendly
- Single phase and unbalanced loads

Intelligent working modes

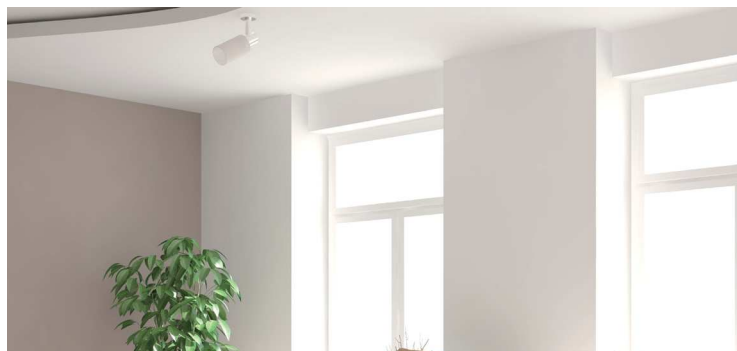
- Self consumption mode for maximum PV utilization
- Charge priority mode for unstable grid
- Force charge & discharge mode for peak shaving
- Force charge & discharge mode varies by time

Easy to use

- Remote upgrade BMS firmware
- Wide range of compatible battery
- Wake up lithium battery after long-term storage
- Essential info uploaded to cloud for diagnosis
- Battery sharing with multiple units



des
y
use
to 60kW
s switching under



Start-up Voltage Range	100 - 500V.d.c	100 - 500V.d.c	100 - 500V.d.c
MPPT Voltage Range	120V.d.c	120V.d.c	120V.d.c
MPPT Number	2	2	2
Max. DC Input Current	13A/13A	13A/13A	13A/13A

Battery

Compatible Battery Type	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid	Lithium-ion/Lead-Acid
Nominal Battery Voltage	48V.d.c	48V.d.c	48V.d.c
Battery Voltage Range	40 - 60V.d.c	40 - 60V.d.c	40 - 60V.d.c
Max. Charge/Discharge Current	66A/66A	66A/66A	80A/80A
Max. Charge/Discharge Power	3600W/3600W	3600W/3600W	4000W/4000W
Charging Curve	3 stages	3 stages	3 stages
Max. Charge Voltage	59V	59V	59V
Capacity of Battery	2-20kWh	2-20kWh	2-20kWh

Grid

Nominal AC Output Power	3000W	3600W/4000W	4600W/5000W
Max. AC Output Power	3000VA	3600VA/4000VA	4600VA/5000VA
Max. AC Output Current	15A	16A/20A	25A
Nominal AC Voltage	230V.a.c	230V.a.c	230V.a.c
AC Voltage Range	180 - 270V.a.c	180 - 270V.a.c	180 - 270V.a.c
Nominal AC Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
AC Frequency Range	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz
Power Factor	Adjustable 0.8 overexcited to 0.8		
THDI	<3%	<3%	<3%

EPS

UPS Max. Output Power without Solar	3000W	3600W/4000W	4000W/5000W
UPS Max. Output Power with Solar	3000W	3600W/4000W	5000W/6000W
UPS Nominal Output Voltage	230V.a.c	230V.a.c	230V.a.c
UPS Nominal Output Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
UPS Nominal Output Current	13A	15.6A/17.4A	17.4A
Peak Power Without Solar	4500W, 30s	4500W, 30s	4500W, 30s
THDV	<5%	<5%	<5%
Switching Time	Typical 0.01s	Typical 0.01s	Typical 0.01s

Efficiency

Europe Efficiency	97.5%	97.5%	97.5%
Max. Efficiency	97.9%	97.9%	97.9%
Battery Charge/Discharge Efficiency	94.5%	94.5%	94.5%

Protection

Reverse Polarity Protection	Yes	Yes	Yes
Over Current/Voltage Protection	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 / NEMA4X	IP65 / NEMA4X	IP65 / NEMA4X
DC Switch	Yes	Yes	Yes

General

Dimensions (W/H/D)	455 / 476 (565) / 181	455 / 476 (565) / 181	455 / 476 (565) / 181
Weight	20 kg	20 kg	20 kg
Topology	Transformerless (solar), HF		
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	0-100%	0-100%	0-100%

Startup voltage(V) 140
 Full power MPPT voltage range(V) 170-480
 DC nominal voltage(V) MPPT tracker 360
 DC voltage range(V) 100-600
 MPPT operating voltage range(V) 60-480
 Max power(W) 7000/7000/7000
 Number of MPPT(Strings per MPPT) 3(1/1/1)

Battery

Type Lead-acid /Lithium
 Max charge/discharge current(A) 220
 Nominal voltage(V) 48
 Voltage range(V) 40-60

Grid

Nominal output current(A) 316/333
 Max output current(A) 37
 Rated voltage(V) 240
 Operating voltage range(V) 180-270
 Nominal power output(W) 8000
 Max. apparent AC power(VA) 8900
 Operating frequency(Hz) 50/60
 Operating frequency range(Hz) 45-55/55-65
 Phase shift (cosφ) 0.99@full load
 Reactive power adjust range -0.8~+0.8
 THDI <3%

EPS

Nominal output current(A) 33.3
 Nominal output voltage(V) 240
 Rated output power (VA) 8000
 Operating frequency(Hz) 50/60
 Peak power(VA) 1.1xPn/30min
 THDv <3%
 Switch time(ms) <10

Efficiency

EU Efficiency 98%
 Max.Efficiency@PV to grid 97.5%
 Max. Efficiency@ battery to grid 95%
 MPPT Efficiency 99.9%

Protection

Integrated disconnect DC switch
 Reverse polarity protection YES
 DC switch rating for each MPPT YES
 Output over voltage protection YES
 Output over current protection YES
 Ground fault monitoring YES
 Grid monitoring YES
 Pole sensitive leakage current monitoring YES
 AFCI OPT
 RSD OPT

General

Dimensions(mm) 650*440*220
 Weight(kg) 38kg
 Degree of protection IP65
 Cooling concept FAN
 Topology Transformer-less

140
 210-480
 360
 100-600
 60-480
 12000/7
 3(2/1/1)

Lead-acid
 220
 48
 40-60

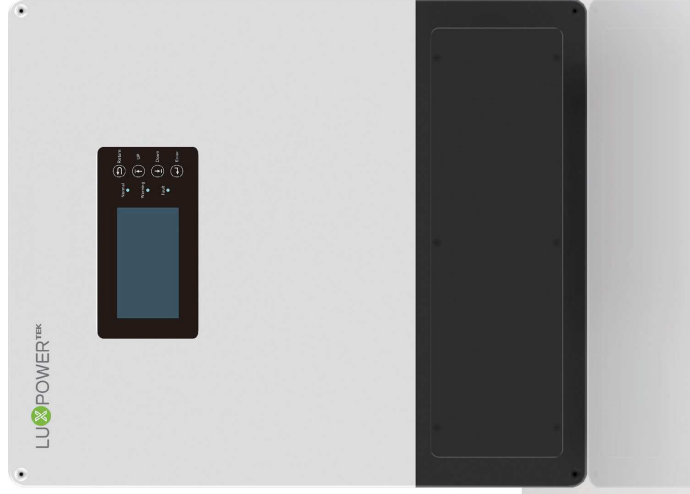
41.6
 46
 240
 180-270
 10000
 11000
 50/60
 45-55/5
 0.99@full
 -0.8~+0.8
 <3%

41.6
 240
 10000
 50/60
 1.1xPn/30min
 1.5xP
 <3%
 <10

98%
 97.5%
 95%
 99.9%

DC switch
 YES
 YES
 YES
 YES
 YES
 YES
 YES
 YES
 YES
 YES
 OPT
 OPT

650*440
 38kg
 IP65
 FAN
 Transformer-less



by

up to 120kW

certification for US

interface available

compatible for US model

switching under 10ms

THDv automatically generated to





Efficiency
des
y
use
ote upgrade
o 60kW
s switching under



Start-up Voltage
120V.d.c
MPPT Number
2
String per MPPT
1/1
Max. DC Input Current
12.5A/12.5A

Battery

Compatible Battery Type
Lead-Acid, Li-on etc.
Nominal Battery Voltage
250V.d.c
Battery Voltage Range
90 - 450V.d.c
Max. Charge/Discharge Current
20A/20A
Max. Charge/Discharge Power
4000W/4000W
Charging Curve
3-stages

Grid

Nominal AC Output Power
4000W
Nominal AC Output Current
17.5A
Max. AC Output Current
22A
Nominal AC Voltage
230V
Optional AC Voltage Range
183~264V
Nominal AC Frequency
50/60Hz
AC Frequency Range
45-55Hz/55-65Hz
Power Factor
>0.99@rated power 0.8lagging-0.8
THDI
<3%

EPS

UPS Nominal Power
4000W
UPS Nominal Voltage
230Vac
UPS Nominal Frequency
50/60Hz
UPS Nominal Current
17.5A
Peak Power
5000W, 30s
THDV
<3%@R-load
Switching Time
Typical 0.01s

Efficiency

MPPT Efficiency
>99%
Europe Efficiency
96.5%
Max. Efficiency
97.5%
Max. Charge/Discharge Efficiency
97%/ 96.6%

Protection

Reverse Polarity Protection
Yes
Over Voltage/Over Current
Yes
Anti-Islanding Protection
Yes
AC Short-circuit Protection
Yes
Leakage Current Protection
Yes
Ground Fault Monitoring
Yes
Grid Monitoring
Yes
Ingress Protect Degree
IP65
DC Switch
Integrated

General

Dimensions (W/H/D)
455 / 476 / 181
Weight
20 kg
Topology
Transformerless
Cooling Concept
Natural Convection

and inverters & AC units
available.

even further to bringing
power with or without grid

available for homes without
generator, re-organize your power



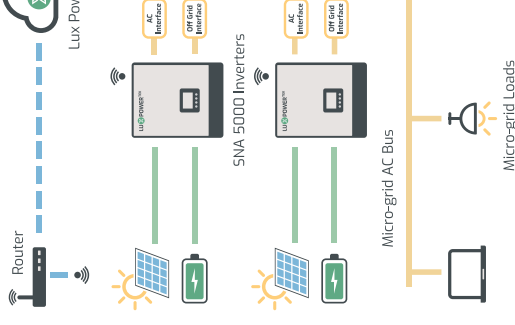
/ System Connection

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

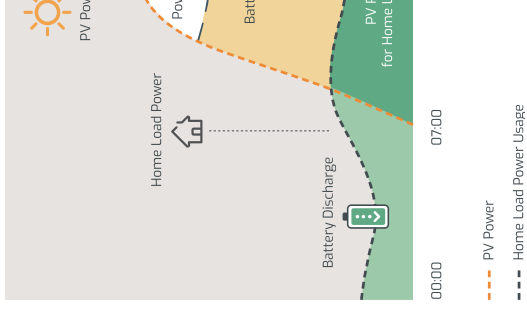


/ Working Mode

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.





- **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**

Normal output frequency	50/60Hz	6000VA	10ms	Pure sine wave
Surge power	6000VA			
Switch time	10ms			
Wave form	Pure sine wave			
Battery				
Battery Type	Lithium/Lead-Acid			
Normal Voltage	51.2V/48V			
Max. Charge Voltage	59V			
Solar				
Max. Recommended PV Power	3200W/3200W			
MPPT Tracker	2			
DC Input Voltage Range	100-480Vdc			
MPPT Voltage Range	100-385Vdc			
Start-up Voltage	120Vdc			
Max. Solar Charge Current	110A			
Max. Solar Input Current	13A/13A			
Max. MPPT Efficiency	>98%			
Grid				
Normal Voltage	230Vac			
AC Voltage Range	110-280Vac			
Max. Charge Current	60A			
Frequency Range	50/60Hz(Auto Sensing)			
General				
Dimensions(W/H/D)	330x504x135mm			
Weight	14Kg			
Protection Degree	IP20			
Relative Humidity	5%~95%	Relative Humidity (Non-condensing)		
Operating Temperature	0°C~50°C			
Storage Temperature	-15°C~60°C			
Inter				
Display	LCD+LED			
Lithium Battery Communication	CAN/RS485			
RS485/Dry Connector	YES/YES			
Wifi/GPRS	YES/YES			
Warranty	2 year			



Series

- LXP ACS 3600
- LXP SQPOD 3600

Step Profit Solar System





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



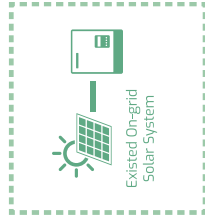
Intelligent working modes

- 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



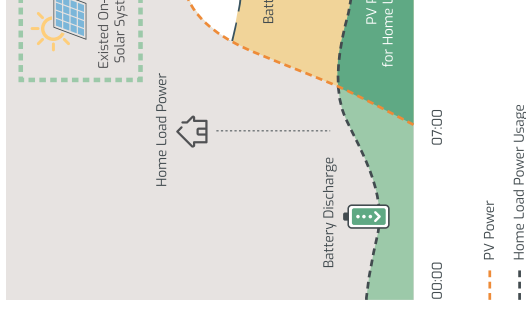
Easy to use with battery

- 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



/ 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 feed back into the grid. This is the default mode which will increase the self consumption rate and reduce the energy bill significantly.



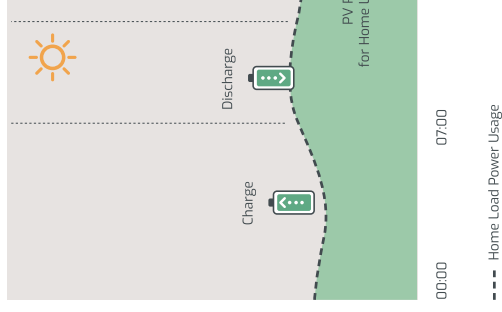
Connection

solar system to tem.

ing a LXP. AC series n a battery pack.

/ 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.



A real plug & play unit

that help...

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 ma
 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
 <3%
 THDI
 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
 <3%
 THDV(linear load)
 Typical 0.01s
 Switching Time
 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, CA



des

available

y

use

note upgrade

systems to be able to run

switching under 10ms



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 ma
 Battery Back Feed Current
 0A

Grid

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 3600VA
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 Max. Output Current
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 Noise Emission
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 Standby Consumption
 <5W
 Display & Communication Interfaces
 LCD, LED, RS485, Wi-Fi, CA



des

available

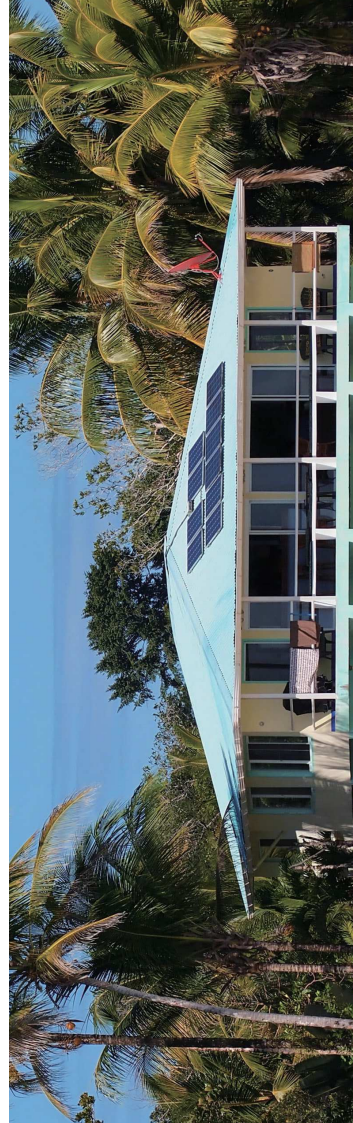
use

note upgrade

to 36kW

switching under 10ms

systems to be able to run



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
 100kW
 MAX charge and discharge power
 300~700Vdc
 Voltage range
 200A
 MAX charge and discharge current
 98.7%(TBD)
 Max charge and discharge efficiency

Protection

DC Reverse-polarity Protection
 Yes
 DC Surge Arrester
 Type II

Communication

Display
 LED+LCD/Touch button
 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 Humid
 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 6210

Installation

Monitor

Management

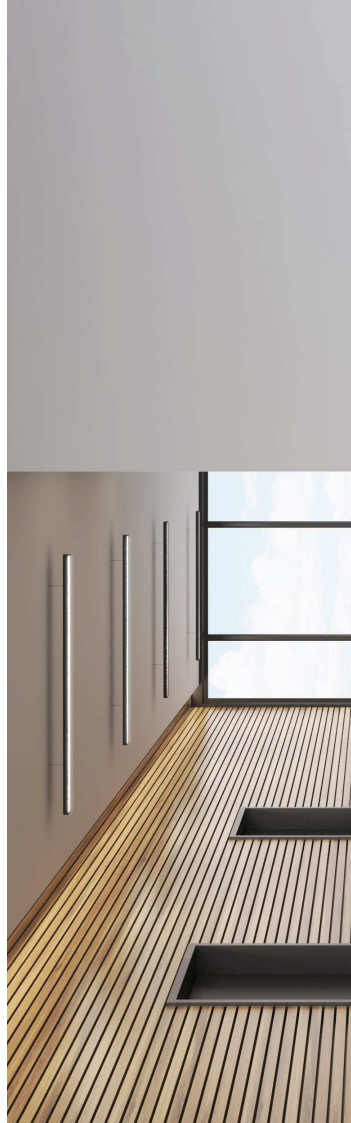
on mobile

Supports for multi level type

Supports Solar input and 12

Supports up to energy storage

Supports for remote service



Energy Storage App

Power Manage System

LeapDroid UK

6076



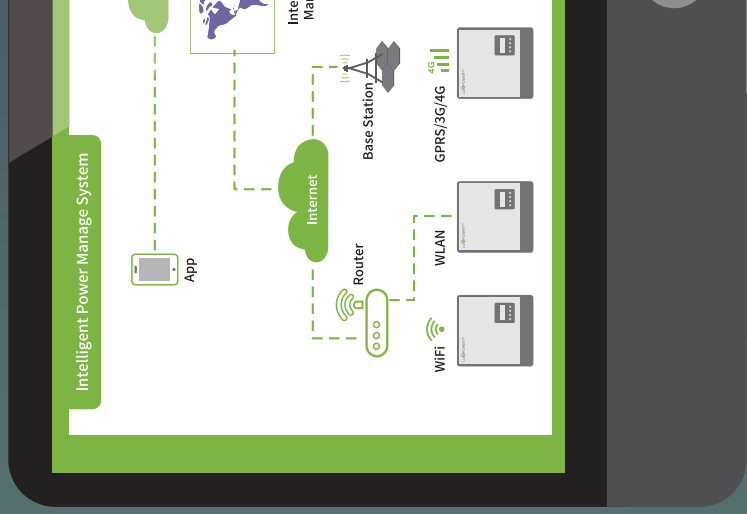
Luxpower has dedicated to making things easier since day 1.
 Thanks to the greatly accessible monitor and management,
 All needs from users, installers, distributors, can be met.



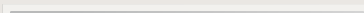
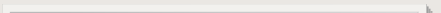
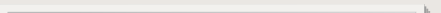
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 Huangtian Community, Hangcheng Street,
 Bao'an District, Shenzhen, China, 518100.



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Your Reliable Energy Solution Partner





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Huangtian Community, Hangcheng Street, Bao'an District,
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