

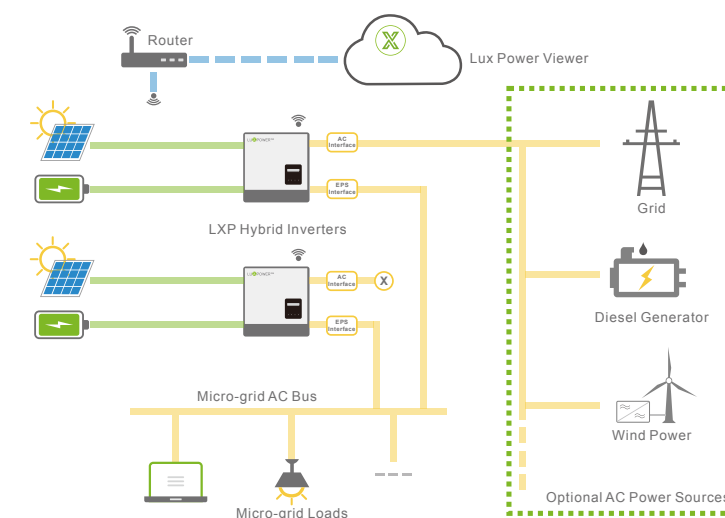
Hybrid Series

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

LU^X POWER^{TEK}

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

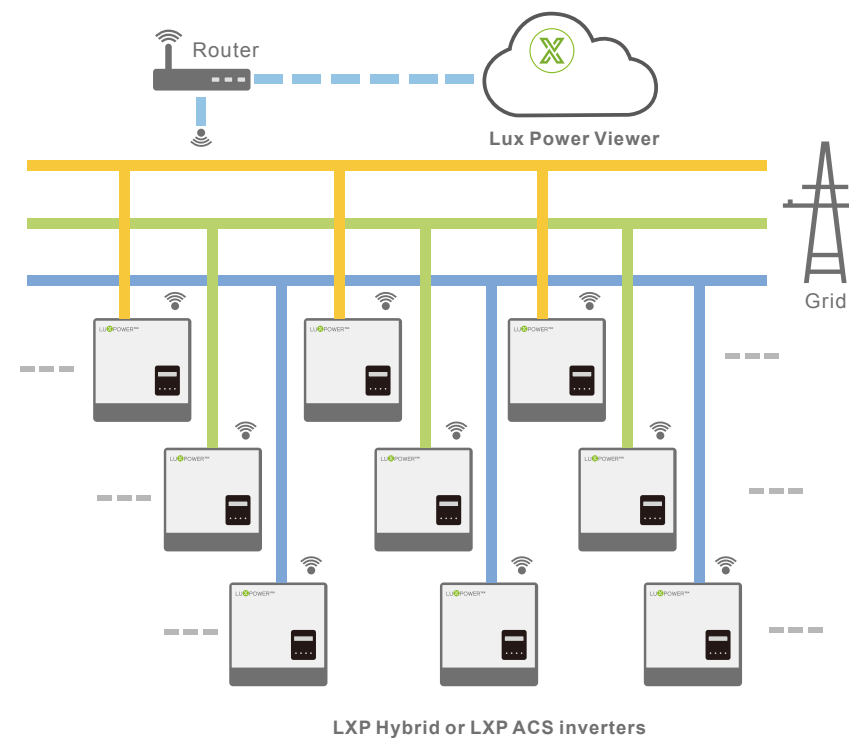
LXP Hybrid enables a programmable and schedulable smart solar energy storage system to help increase your solar energy self-consumption rate, protect your home appliances from grid outage, and balance your energy usage strategy to save energy bill.



System Connection



Paralleling Extensions



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

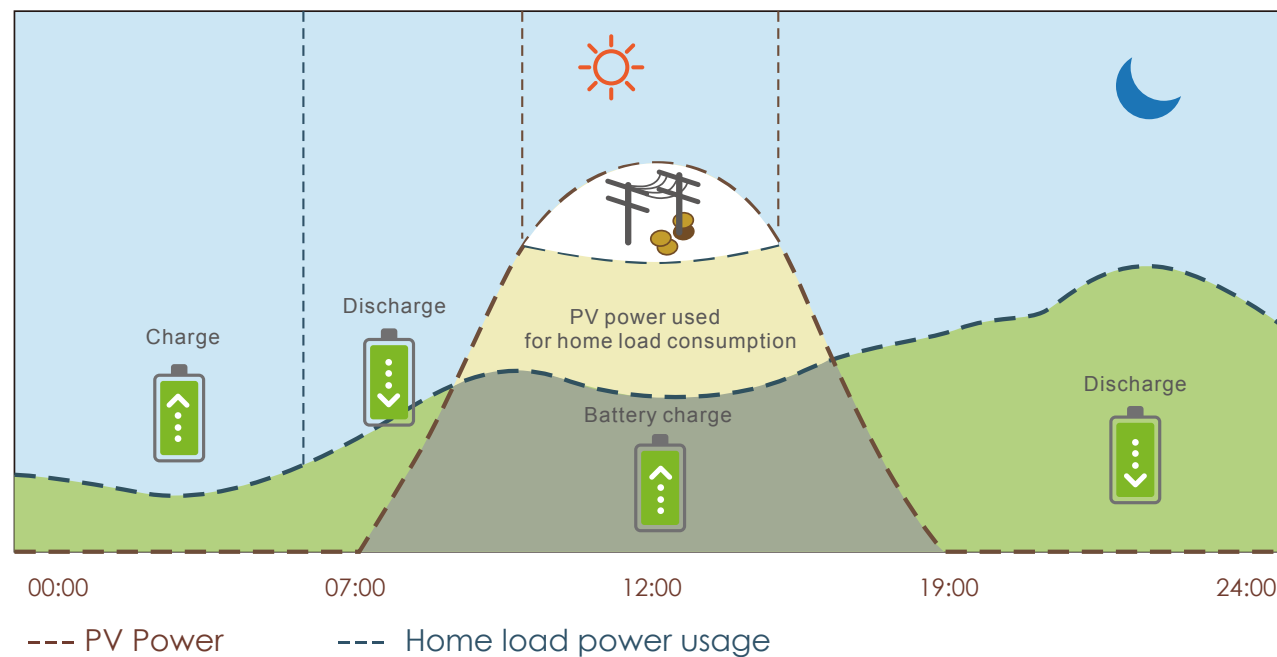
Paralleling LXP inverters (single phase inverters) to build a three phase system for either hybrid or AC coupled energy storage applications.

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

How it works >>>

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.



Force Time Use

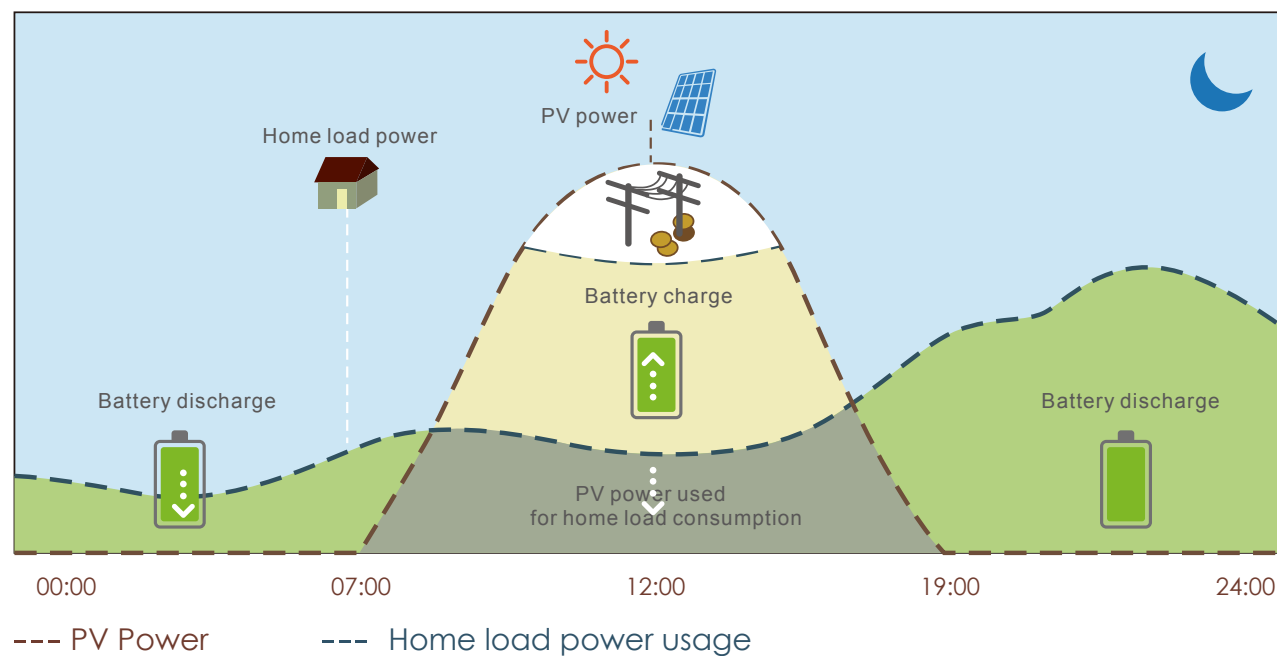


Self Consumption



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.



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Key Features



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



Smart EPS

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



Advanced Parallel

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



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

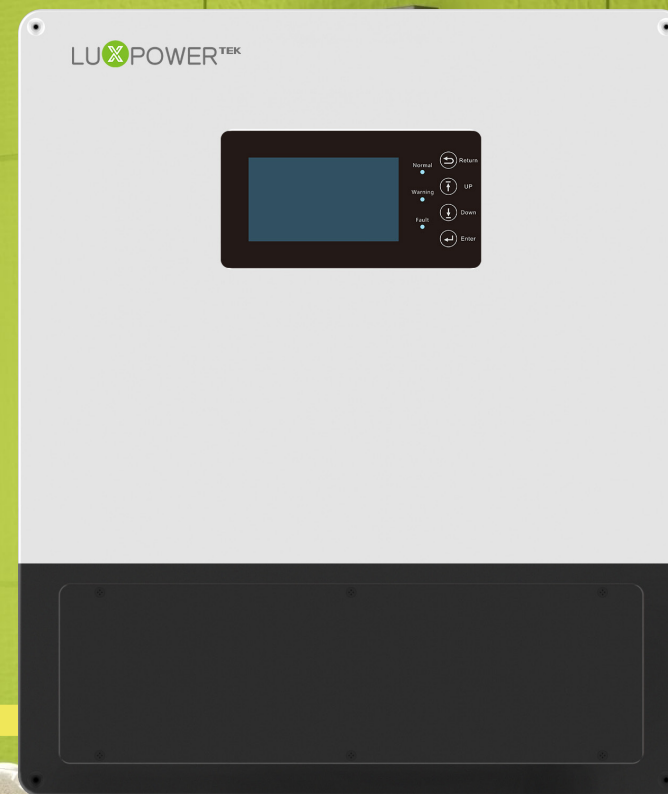
- Remote upgrade BMS firmware
- Wide range of compatible battery brands
- Wake up lithium battery from sleep mode
- Essential info uploaded to Lux server for quick ESS diagnosis
- Battery sharing with multi-inverters in single phase or three phase

Hybrid Series

Your Reliable Energy Solution Partner

LXP8-12k / 8-12k US

- **Color LCD, IP65**
- **Stronger EPS**
- **Easy to use with battery**
- **Advanced parallel, up to 120kW**
- **Optional 10 year warranty for US**
- **Separate generator interface available**
- **Split phase output available for US model**
- **Plug & Play, seamless switching under 10ms**
- **Host inverter automatically generated to manage entire system**



HYBRID INVERTER

SPECIFICATION

Solar	LXP 7.6K/8K	LXP 9K	LXP 10K	LXP 12K
Max usable input current(A)	15/15/15	15/15/15	27/15/15	27/15/15
Max short circuit input current(A)	17/17/17	17/17/17	34/17/17	34/17/17
Start input voltage(V)	100	100	100	100
Start-up voltage(V)	140	140	140	140
Full power MPPT voltage range(V)	170-480	190-480	210-480	230-480
DC nominal voltage(V) MPPT tracker	360	360	360	360
DC voltage range(V)	100-600	100-600	100-600	100-600
MPPT operating voltage range(V)	60-480	60-480	60-480	60-480
Max power(W)	7000/7000/7000	7000/7000/7000	12000/7000/7000	12000/7000/7000
Number of MPPT(Strings per MPPT)	3(1/1/1)	3(1/1/1)	3(2/1/1)	3(2/1/1)
Battery				
Type	Lead-acid /Lithium	Lead-acid /Lithium	Lead-acid /Lithium	Lead-acid /Lithium
Max charge/discharge current(A)	220	220	220	220
Nominal voltage(V)	48	48	48	48
Voltage range(V)	40-60	40-60	40-60	40-60
Grid				
Nominal output current(A)	31.6/33.3	37.5	41.6	50
Max output current(A)	37	41	46	55
Rated voltage(V)	230/240,Split phase	230/240,Split phase	230/240,Split phase	230/240,Split phase
Operating voltage range(V)	180-270	180-270	180-270	180-270
Nominal power output(W)	8000	9000	10000	12000
Max. apparent AC power(VA)	8900	9900	11000	13200
Operating frequency(Hz)	50/60	50/60	50/60	50/60
Operating frequency range(Hz)	45-55/55-65	45-55/55-65	45-55/55-65	45-55/55-65
Phase shift (cosφ)	0.99@full load	0.99@full load	0.99@full load	0.99@full load
Reactive power adjust range	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8
THDI	<3%	<3%	<3%	<3%
EPS				
Nominal output current(A)	33.3	37.5	41.6	50
Nominal output voltage(V)	240	240	240	240
Rated output power (VA)	8000	9000	10000	12000
Operating frequency(Hz)	50/60	50/60	50/60	50/60
Peak power(VA)		1.1xPn/30min	1.25xPn/5min	1.5xPn/30s 2xPn/10s
THDv	<3%	<3%	<3%	<3%
Switch time(ms)	<20	<20	<20	<20
Efficiency				
EU Efficiency	98%	98%	98%	98%
Max.Efficiency@PV to grid	97.5%	97.5%	97.5%	97.5%
Max. Efficiency@ battery to grid	95%	95%	95%	95%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
Integrated disconnect	DC switch	DC switch	DC switch	DC switch
Reverse polarity protection	YES	YES	YES	YES
DC switch rating for each MPPT	YES	YES	YES	YES
Output over voltage protection	YES	YES	YES	YES
Output over current protection	YES	YES	YES	YES
Ground fault monitoring	YES	YES	YES	YES
Grid monitoring	YES	YES	YES	YES
Pole sensitive leakage current monitoring	YES	YES	YES	YES
AFCI	OPT	OPT	OPT	OPT
RSD	OPT	OPT	OPT	OPT
General				
Dimensions(mm)	650*440*220	650*440*220	650*440*220	650*440*220
Weight(Kg)	38kg	38kg	38kg	38kg
Degree of protection	IP65	IP65	IP65	IP65
Cooling concept	FAN	FAN	FAN	FAN
Topology	Transformer-less	Transformer-less	Transformer-less	Transformer-less
Relative humidity	0~100%	0~100%	0~100%	0~100%
Altitude(m)	<2000	<2000	<2000	<2000
Noise emission(dB)	<50	<50	<50	<50
Internal consumption(W)	<15	<15	<15	<15
Display	Touch color screen	Touch color screen	Touch color screen	Touch color screen
Communication interface	485/Wi-Fi/CAN	485/Wi-Fi/CAN	485/Wi-Fi/CAN	485/Wi-Fi/CAN
Standard Warranty	5/10 years	5/10 years	5/10 years	5/10 years