

PRODUCT BROCHURE

Solar & Energy Storage

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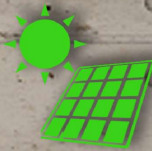
*Where sun shined
Power always on*

”



HYBRID INVERTER

LXP 3K/4K/4K6/ 5K Hybrid



“Brilliant choice for hybrid solar energy storage system”

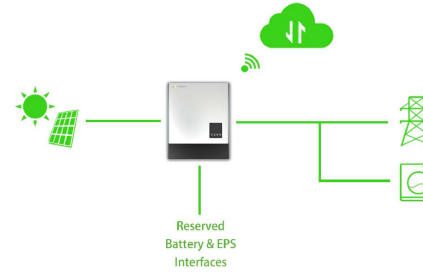
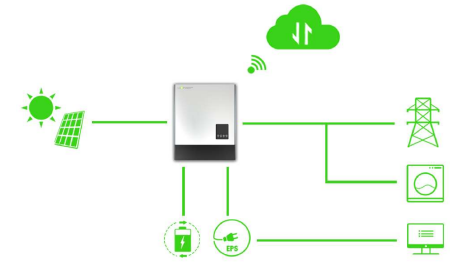
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HYBRID SYSTEM

A typical hybrid system with LXP Hybrid inside, with enhanced functions and performance. This system is all about reducing your energy bill, shorten your investment pay back period, increasing the solar energy yielding and self-consumption rate, strengthen your energy safety etc.

HIGHLIGHTS

- Programable multiple working modes
- Remote upgrading and real time monitoring
- Seamless automatically switching (<0.01s) for grid shortage
- Smart export control on both AC output and EPS output



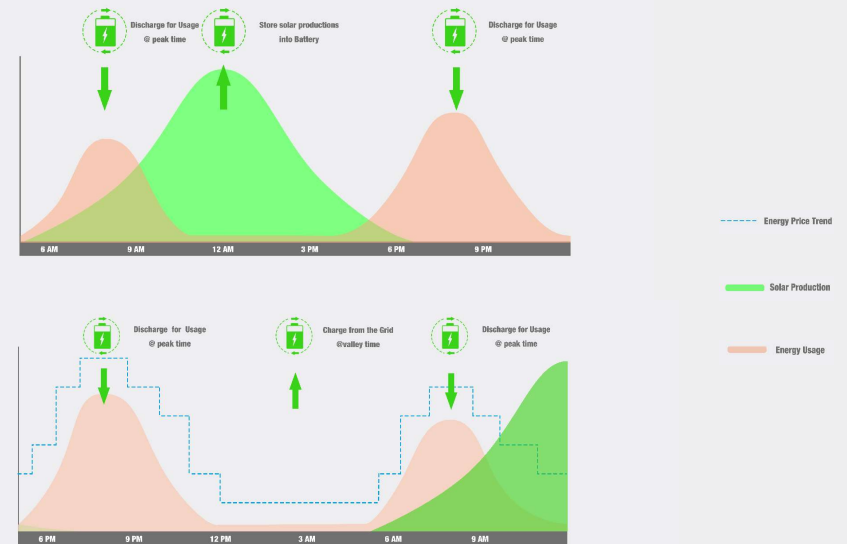
“HYBRID READY!”

An interesting solution based on LXP Hybrid for new solar installations, without a battery but leave full interfaces ready for energy storage retrofitting, user could retrofit the on-grid solar system to solar battery system simply by adding an energy storage battery and plugging into the reserved interfaces. Now you've get a fresh new idea when install solar.

HIGHLIGHTS

- Programable working modes
- Remote upgrading and real time monitoring
- Optional export control function
- Energy storage and EPS interfaces ready for future retrofitting

How does LXP Hybrid optimize your system and energy bill?



“ Where sun shined

Power always on

”

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HYBRID

Solar and energy storage hybrid



COMPACT DESIGN

Smaller size, lighter weight



IP65 PROTECTION

Designed for both outdoor and indoor installation



EASY TO USE

Schedulable working modes, easy installation and setting



REMOTE MONITORING & MAINTENANCE

Remote monitoring and upgrade



ENHANCE EPS

Seamless switching within 0.01s with stronger back-up output



OPTIMIZED HEAT CONTROL

Much better heat dissipation, and much lower derating



SAFER OPERATION

Protected connection area, multiple protection devices



LXP 3K/4K/4K6/5K Hybrid

A newly designed solar and energy storage hybrid inverter, capable to install 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 shortage, and balance your energy usage strategy to save energy bill.

Solar Input

Max. DC Input Power	6600W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100 - 550V.d.c
MPPT Voltage Range	120 - 500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max. DC Input Current	10A/10A
Max. Short-circuit Current	13.7A/13.7A
Max. Input Power per MPPT	3600W/3600W
Max. Feedback Current to Array	0/0 A

3K Hybrid

Max. DC Input Power	6600W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100 - 550V.d.c
MPPT Voltage Range	120 - 500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max. DC Input Current	10A/10A
Max. Short-circuit Current	13.7A/13.7A
Max. Input Power per MPPT	3600W/3600W
Max. Feedback Current to Array	0/0 A

3.6K Hybrid

Max. DC Input Power	7000W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100 - 550V.d.c
MPPT Voltage Range	120 - 500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max. DC Input Current	11A/11A
Max. Short-circuit Current	13.7A/13.7A
Max. Input Power per MPPT	4000W/4000W
Max. Feedback Current to Array	0/0 A

4.6K Hybrid

Max. DC Input Power	8000W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100 - 550V.d.c
MPPT Voltage Range	120 - 500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max. DC Input Current	11A/11A
Max. Short-circuit Current	13.7A/13.7A
Max. Input Power per MPPT	4000W/4000W
Max. Feedback Current to Array	0/0 A

5K Hybrid

Max. DC Input Power	8000W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100 - 550V.d.c
MPPT Voltage Range	120 - 500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max. DC Input Current	11A/11A
Max. Short-circuit Current	13.7A/13.7A
Max. Input Power per MPPT	4000W/4000W
Max. Feedback Current to Array	0/0 A

Battery Output

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	66A/66A	66A/66A
Max. Charge/Discharge Power	3600W/3600W	3600W/3600W	3600W/3600W	3600W/3600W
Charging Curve	3 stages	3 stages	3 stages	3 stages
Max. Charge Voltage	59V	59V	59V	59V
DOD(Lithium-ion/Lead-Acid)	80%/50%	80%/50%	80%/50%	80%/50%
Capacity of Battery	3-12kWh	3-12kWh	3-12kWh	3-12kWh

AC Output

Nominal AC Output Power	3000W	3600W	4600W	5000W
Max. AC Output Power	3000VA	3600VA	4600VA	5000VA
Max. AC Output Current	15A	16A	25A	25A
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	Adjustable 0.8 overexcited to 0.8 underexcited	Adjustable 0.8 overexcited to 0.8 underexcited	Adjustable 0.8 overexcited to 0.8 underexcited
THDI	<3%	<3%	<3%	<3%
Inrush Current	60.0A/5us	60.0A/5us	60.0A/5us	60.0A/5us
Max. Output Fault Current	70a.c.A/3s	70a.c.A/3s	70a.c.A/3s	70a.c.A/3s
Max. Output Over Current Protect	15A	20A	25A	25A

EPS Output - with Battery

EPS Nominal Output Power	3000W	3000W	3000W	3000W
EPS Nominal Output Voltage	230V.a.c	230V.a.c	230V.a.c	230V.a.c
EPS Nominal Output Frequency	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz
EPS Nominal Output Current	13A	13A	13A	13A
Peak Power	4500W, 30s	4500W, 30s	4500W, 30s	4500W, 30s
THDV	<5%	<5%	<5%	<5%
Switching Time	<0.01s	<0.01s	<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 Data

Dimensions (W/H/D)	451 / 469 (551) / 184	451 / 469 (551) / 184	451 / 469 (551) / 184	451 / 469 (551) / 184
Weight	20 kg	20 kg	20 kg	20 kg
Topology	Transformerless (solar), HF (Battery)	Transformerless (solar), HF (Battery)	Transformerless (solar), HF (Battery)	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 °C	-25 - 60 °C	-25 - 60 °C	-25 - 60 °C
Altitude	<2000m	<2000m	<2000m	<2000m
Noise Emission	<25dB	<25dB	<25dB	<25dB
Standby Consumption	<5W	<5W	<5W	<5W
Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi, CAN	LCD, LED, RS485, Wi-Fi, CAN	LCD, LED, RS485, Wi-Fi, CAN	LCD, LED, RS485, Wi-Fi, CAN

Certification & Approvals

IEC62109-1-2, IEC62040, EN61000-6-1, EN61000-6-2, EN61000-6-3

AC COUPLED ESS INVERTER

LXP 3K/5K ACS



“
Ideal solution for
retrofitting solar
system
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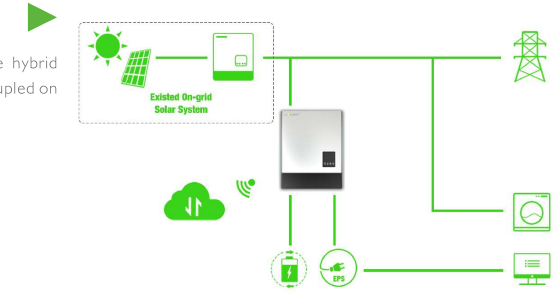
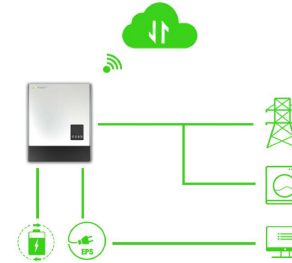
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Best for Retrofitting Solar

To retrofit existed on-grid solar system to solar energy storage hybrid system could not be easier than install a LXP AC series inverter coupled on AC side with a battery pack.

HIGHLIGHTS

- Programmable working modes
- Remote upgrading and real time monitoring
- Seamless automatically switching (<0.01s) for grid shortage
- Enhanced EPS/back-up function
- Seamless capable with your existed on-grid solar system
- Smart export control on both AC output and EPS output



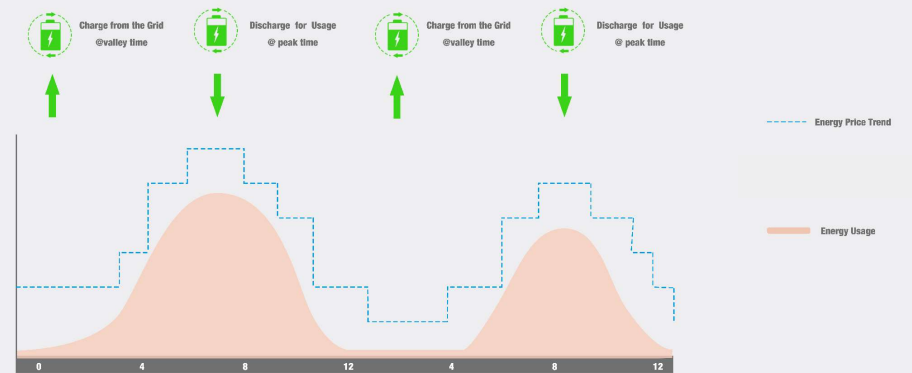
AC Energy Storage System

For some situations, user might not have solar, then you could try install a purely AC coupled energy storage system based on LXP AC series inverter with a battery pack to strengthen your energy system and save money through schedulable energy usage strategy.

HIGHLIGHTS

- Programmable working modes
- Remote upgrading and real time monitoring
- Seamless automatically switching (<0.01s) for grid shortage
- Enhanced EPS/back-up function
- Smart export control on both AC output and EPS output

How does LXP ACS help to enhance your energy storage system?



“ Where sun shined
Power always on ”



AC COUPLED ESS

AC coupled energy storage



COMPACT DESIGN

Smaller size, lighter weight



IP65 PROTECTION

Designed for both outdoor and indoor installation



EASY TO USE

Schedulable working modes, easy installation and setting



REMOTE MONITORING & MAINTENANCE

Remote monitoring and upgrade



ENHANCE EPS

Seamless switching within 0.01s with stronger back-up output



OPTIMIZED HEAT CONTROL

Much better heat dissipation, and much lower derating



SAFER OPERATION

Protected connection area, multiple protection devices



LXP 3K/5K ACS

AC coupled energy storage inverter, specially designed for retrofitting solar system. By simply install an AC coupled energy storage system based on this inverter at the AC output of on-grid solar system, you could retrofit your existed on-grid solar system to a solar energy storage system and increase the solar self-consumption rate, enhanced EPS back-up function and reduce energy bill.

Battery Output

3K ACS

5K ACS

Compatible Battery Type	Lithium-ion, Lead-Acid etc.	Lithium-ion, Lead-Acid etc.
Nominal Battery Voltage	48V.d.c	48V.d.c
Battery Voltage Range	42 - 60V.d.c	42 - 60V.d.c
Max. Charge/Discharge Current	60A / 60A	60A / 60A
Max. Charge/Discharge Power	3600W / 3600W	5000W / 5000W
Charging Curve	3 stages	3 stages

AC Output

Nominal AC Output Power	3000W	5000W
Max. AC Output Power	3000VA	5000VA
Nominal AC Output Current	13A	22A
Max. AC Output Current	15A	25A
Nominal AC Voltage	230V.a.c	230V.a.c
AC Voltage Range	180 - 270V.a.c	180 - 270V.a.c
Nominal AC Frequency	50Hz / 60Hz	50Hz / 60Hz
AC Frequency Range	45 - 55Hz / 55 - 65Hz	45 - 55Hz / 55 - 65Hz
Power Factor	Adjustable 0.8 overexcited to 0.8 underexcited	Adjustable 0.8 overexcited to 0.8 underexcited
THDI	<3%	<3%

EPS Output - with Battery

EPS Nominal Output Power	3000W	5000W
EPS Nominal Output Voltage	230V.a.c	230V.a.c
EPS Nominal Output Frequency	50Hz / 60Hz	50Hz / 60Hz
EPS Nominal Output Current	13A	22A
Peak Power	4500W, 30s	7500W, 30s
THDV	<5%	<5%
Switching Time	<0.01s	<0.01s

Efficiency

Max. Efficiency	97.9%	97.9%
Max. Charge/Discharge Efficiency	94.5%	94.5%

Protection

Reverse Polarity Protection	Yes	Yes
Over Current/Voltage Protection	Yes	Yes
Anti-islanding Protection	Yes	Yes
AC Short-circuit Protection	Yes	Yes
Leakage Current Protection	Yes	Yes
Ground Fault Monitoring	Yes	Yes
Grid Monitoring	Yes	Yes
Ingress Protection Degree	IP65 / NEMA4X	IP65 / NEMA4X

General Data

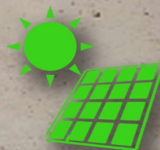
Dimension (W/H/D)	451 / 250 (332) / 184	451 / 310 (392) / 184
Weight	15 kg	17 kg
Topology	HF	HF
Cooling Concept	Natural Convection	Natural Convection
Relatively Humidity	100%	100%
Altitude	<2000m	<2000m
Noise Emission	<25dB	<25dB
Standby Consumption	<5W	<5W
Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi, CAN	LCD, LED, RS485, Wi-Fi, CAN

Certification & Approvals

AS 4777, VDE-AR-N4105, VDE0126, G83, G59
IEC62109-1-2, IEC62040, EN61000-6-1, EN61000-6-2, EN61000-6-3

ON-GRID SOLAR INVERTER

LXP 3K/4K/4K6/ 5K XTL



COMPACT DESIGN

Smaller size, lighter weight

IP65

IP65 PROTECTION

Designed for both outdoor and indoor installation



EASY TO USE

Schedulable working modes, easy installation and setting



REMOTE MONITORING & MAINTENANCE

Remote monitoring and upgrade

“ Better options for your residential solar rooftop ”

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Solar Input

	3K XTL	4K XTL	4K6 XTL	5K XTL
Max. DC Input Power	3600W	4800W	5520W	6000W
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	120 - 480V.d.c	120 - 480V.d.c	120 - 480V.d.c	120 - 480V.d.c
Full-load MPPT Voltage Range	230 - 480V.d.c	240 - 480V.d.c	250 - 480V.d.c	265 - 480V.d.c
Start-up Voltage	140V.d.c	140V.d.c	140V.d.c	140V.d.c
Max. DC Input Current	7A/7A	9A/9A	10A/10A	10A/10A
Max. Short-circuit Current	10A/10A	11.5A/11.5A	12.5A/12.5A	12.5A/12.5A
Max. Input Power per MPPT	2000W/2000W	2500W/2500W	3000W/3000W	3600W/3600W

AC Output

	3K XTL	4K XTL	4K6 XTL	5K XTL
Nominal AC Output Power	3000W	4000W	4600W	5000W
Max. AC Output Power	3000VA	4000VA	4600VA	5000VA
Nominal AC Output Current	13A	17.5A	20A	22A
Max. AC Output Current	15A	20A	25A	25A
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	Adjustable 0.8 overexcited to 0.8 underexcited	Adjustable 0.8 overexcited to 0.8 underexcited	Adjustable 0.8 overexcited to 0.8 underexcited
THDI	<3%	<3%	<3%	<3%

Efficiency

	3K XTL	4K XTL	4K6 XTL	5K XTL
Europe Efficiency	97.5%	97.5%	97.5%	97.5%
Max. Efficiency	98%	98%	98%	98%
MPPT Efficiency	>99.5%	>99.5%	>99.5%	>99.5%

Protection

	3K XTL	4K XTL	4K6 XTL	5K XTL
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 Data

	3K XTL	4K XTL	4K6 XTL	5K XTL
Dimensions (W/H/D)	300 / 325 / 135	300 / 325 / 135	300 / 325 / 135	300 / 325 / 135
Weight	11 kg	11 kg	11 kg	11 kg
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling Concept	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	100%	100%	100%	100%
Altitude	<2000m	<2000m	<2000m	<2000m
Noise Emission	<25dB	<25dB	<25dB	<25dB
Standby Consumption	<5W	<5W	<5W	<5W
Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi	LCD, LED, RS485, Wi-Fi	LCD, LED, RS485, Wi-Fi	LCD, LED, RS485, Wi-Fi

Certification & Approvals

AS 4777, VDE-AR-N4105, VDE0126, G83, G59
IEC62109-1-2, IEC62040, EN61000-6-1, EN61000-6-2, EN61000-6-3