HYBRID INVERTER

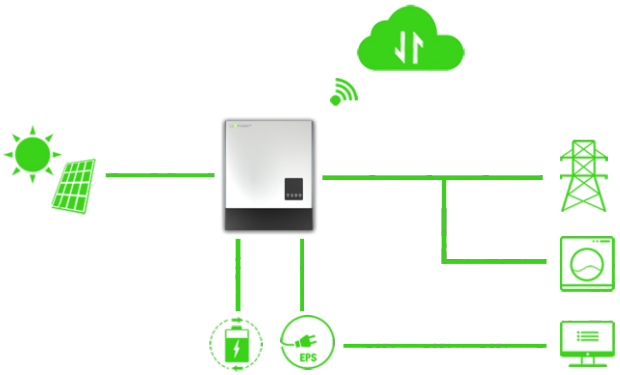
LXP 3K/4K/4K6/ 5K Hybrid

Brilliant choice for hybrid solar energy storage system

LUXPOWER TEK

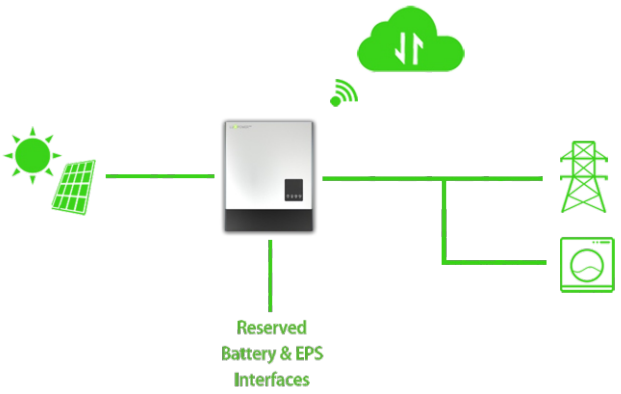
HYBRID SYSTEM

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



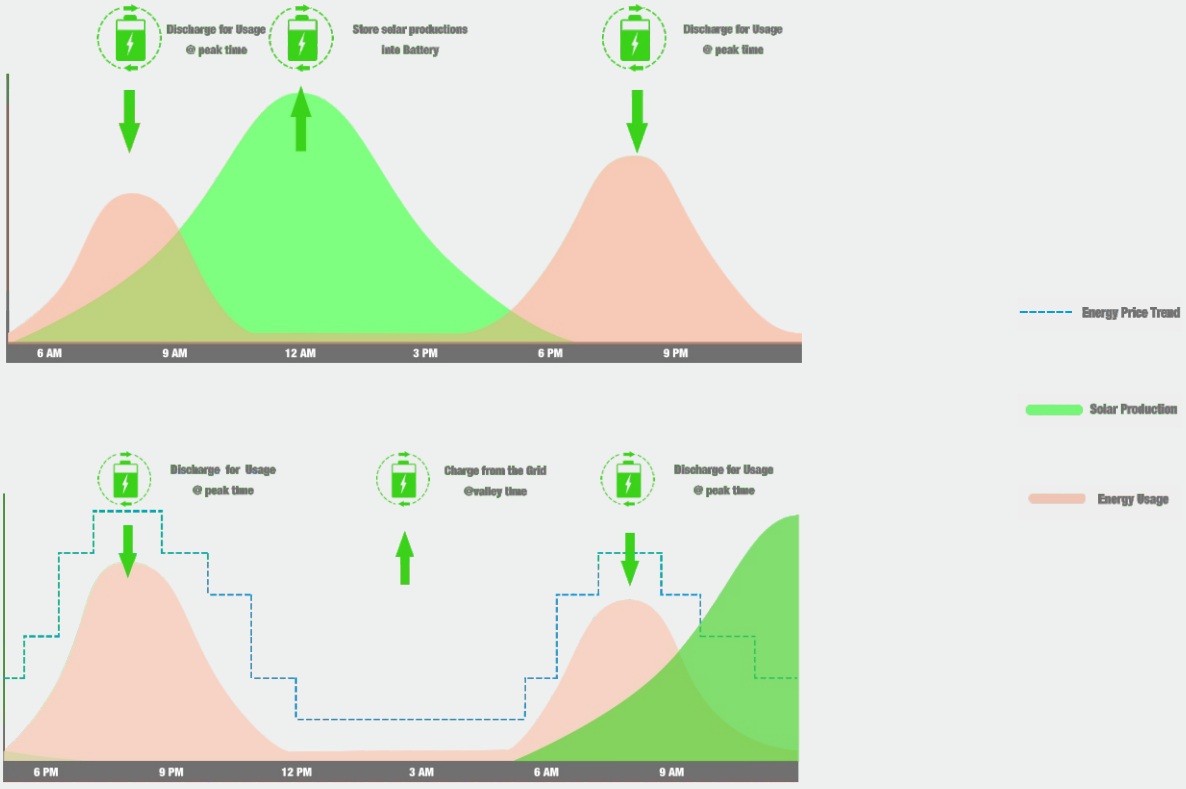
"HYBRID READY!"

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”

LUXPOWER TEK

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 dispassion, 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 programable 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	3K Hybrid	4K Hybrid	4K6 Hybrid	5K Hybrid
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
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
MPPT Number	2	2	2	2
Max. DC Input Current	10A/10A	11A/11A	11A/11A	11A/11A
Max. Short-circuit Current	12.5A/12.5A	13.7A/13.7A	13.7A/13.7A	13.7A/13.7A
Max. Input Power per MPPT	3600W/3600W	4000W/4000W	4000W/4000W	4000W/4000W

Battery Output

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

AC Output

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%

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-ciruit 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	Tranformerless (solar), HF (Battery)	Tranformerless (solar), HF (Battery)	Tranformerless (solar), HF (Battery)	Tranformerless (solar), HF (Battery)
Cooling Concept	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Relatively Humidity	0-100%	0-100%	0-100%	0-100%
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, CAN	LCD, LED, RS485, Wi-Fi, CAN	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