

# AC COUPLED ESS INVERTER

LXP 3600 ACS



## HIGH PERFORMANCE

Up to **70A** Charge/Discharge current of battery

Up to **3600W** Charge/Discharge power of grid

Up to **96%** Efficiency of Charge/Discharge With High Frequency Isolation



## ENHANCE UPS

Seamless switching within **0.01s** with stronger back-up output

Up to **36kW** capacity of UPS in parallel (MG)\*

\* The model with parallel function is different from standard one, it is MG model.



## EASY TO USE

Schedulable working modes, easy installation and setting



## REMOTE MONITORING & MAINTENANCE

Remote monitoring and upgrade



## OPTIMIZED HEAT CONTROL

Much better heat dissipation, and much lower derating



## SAFER OPERATION

Protected connection area, multiple protection devices



## IP65 PROTECTION

Designed for both outdoor and indoor installation



## LXP 3600 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 UPS back-up function and reduce energy bill.

## Battery Input/Output

3.6K ACS

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

## AC Input/Output

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

## UPS Output

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%
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## 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 Data

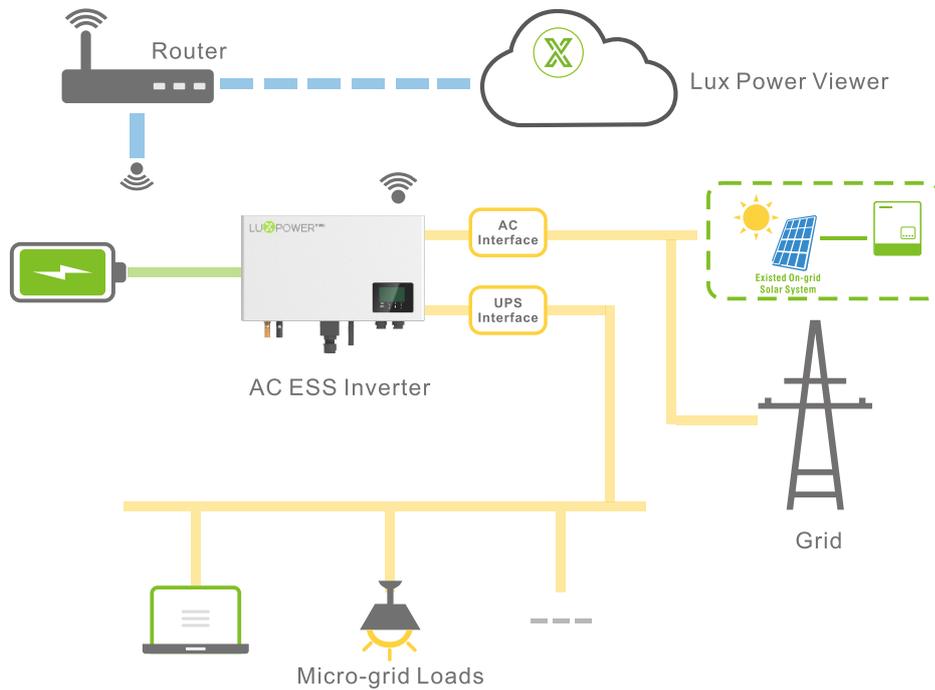
Dimension (W/H/D)	565 / 324 / 171
Weight	15.6 kg
Topology	HF
Cooling Concept	Natural Convection
Relatively Humidity	100%
Altitude	<2000m
Noise Emission	<25dB
Standby Consumption	<5W
Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi, CAN

## Certification & Approvals

G83, G100, CE, SAA  
EN61000-6-3

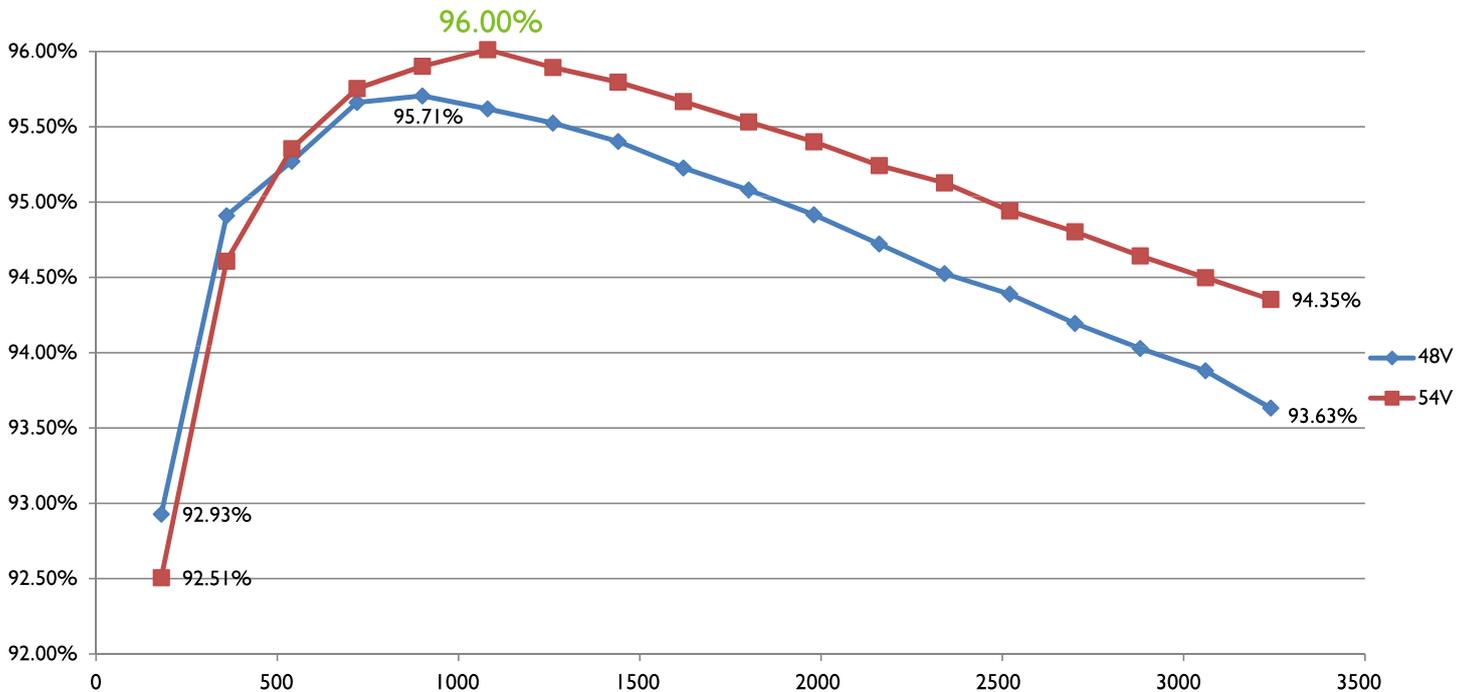
# System Connection

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.



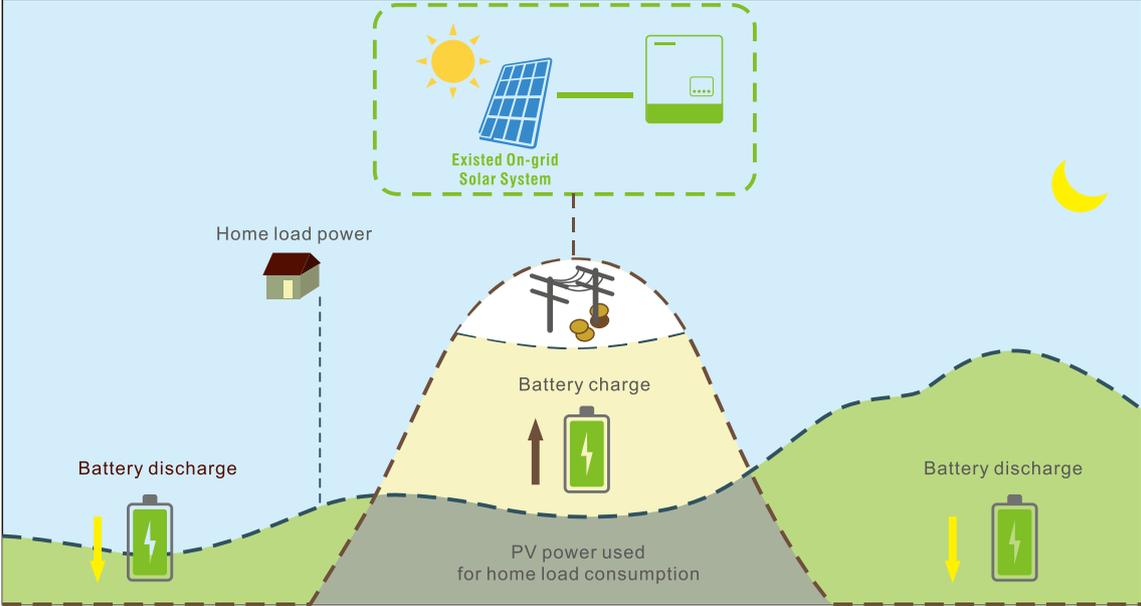
# Charge/Discharge Efficiency Cuv

Discharge & Charge Efficiency @230Vac 50Hz



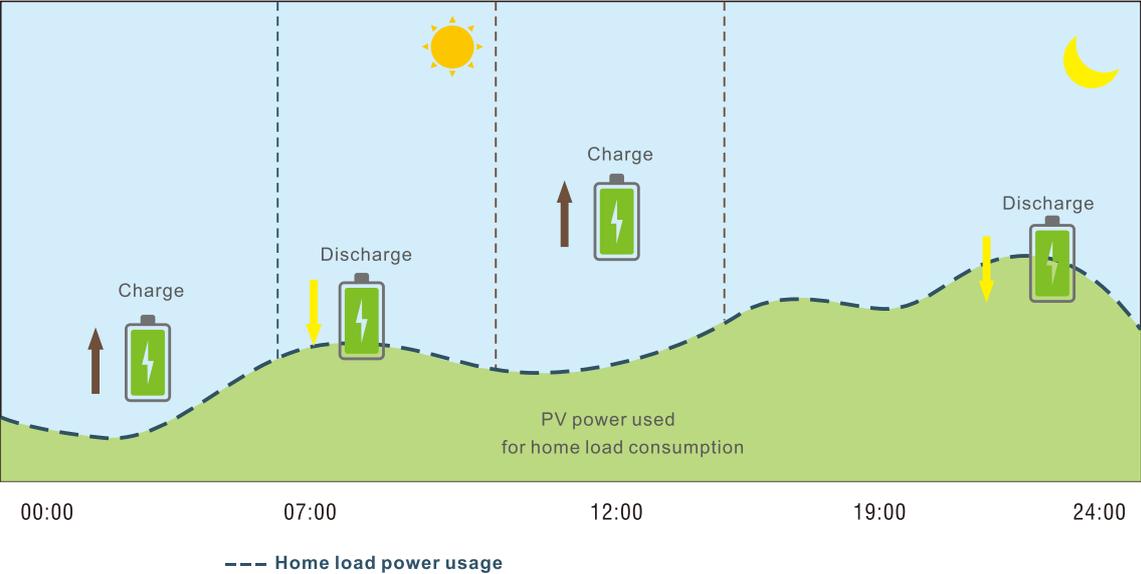
# Self Consumption

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



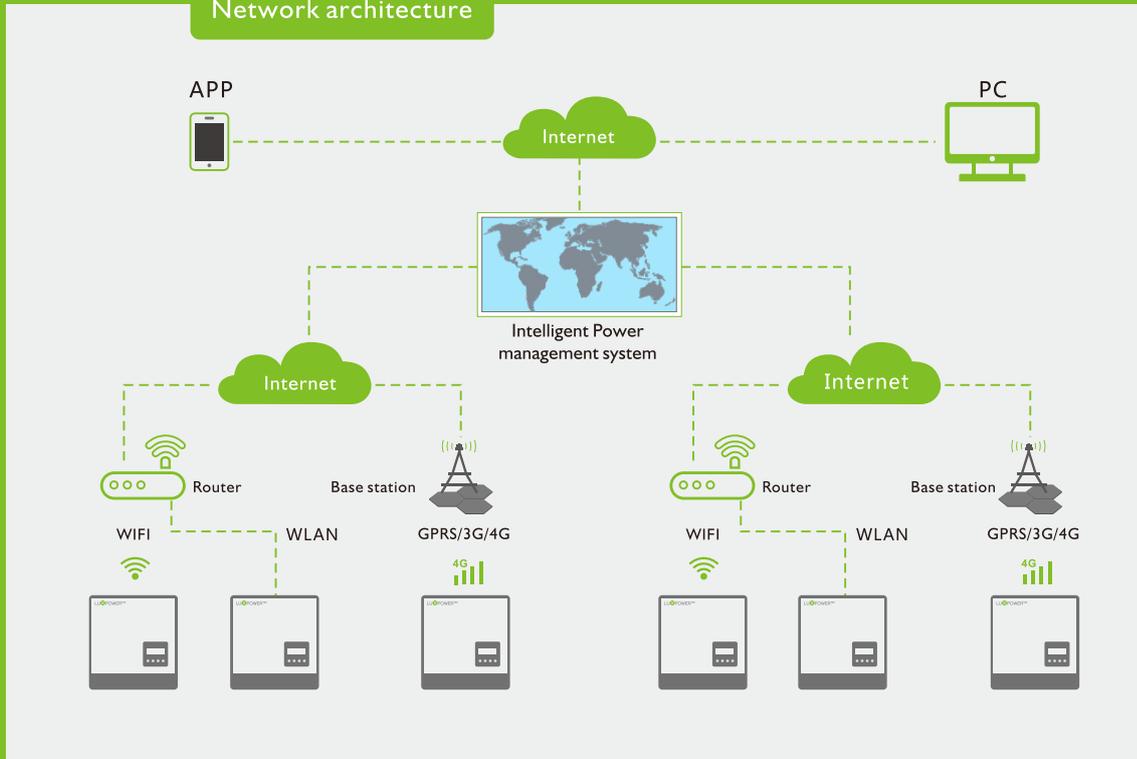
# Force Time Use

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.

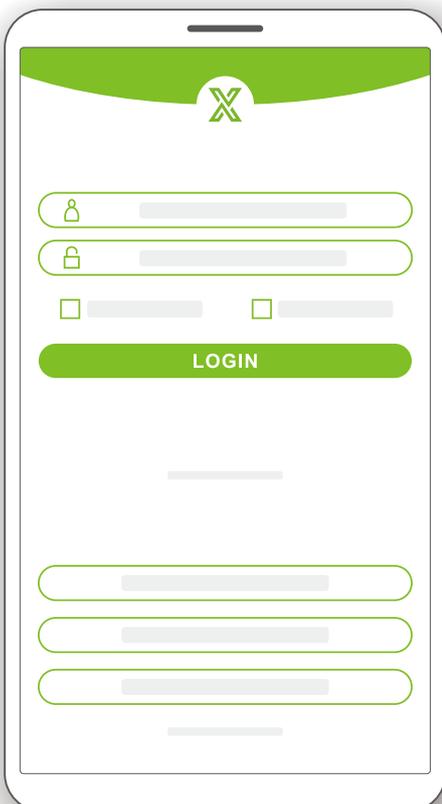


# Intelligent Monitor System

## Network architecture



## LuxPower View



Android APP



IOS APP

# Monitoring Features



Real-time monitoring and Management platform based on smart cloud technology



Advanced remote upgrade and management function for easy usage, maintenance and services



Real-time running data stored locally in the inverter for up to 30 days when wifi or LAN monitoring connection disconnected



One-click WIFI connection and much easier operation on the monitoring and management platform.



Multi-level system monitoring and management



Available for Web, iOS and Android system.



# Application



“

*Where sun shined  
Power always on*

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