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BR-EM-22-02

# Your Reliable Energy Solution Partner





“There are over **50000+**

Luxpower systems installed all over the world, in hybrid/AC couple/Off-grid scenarios. We are committed to marking our users benefit from the sun and enjoy life.”





LUXPOWERTEK

# Hybrid Series

## LB US

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







# How it works

## / 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.

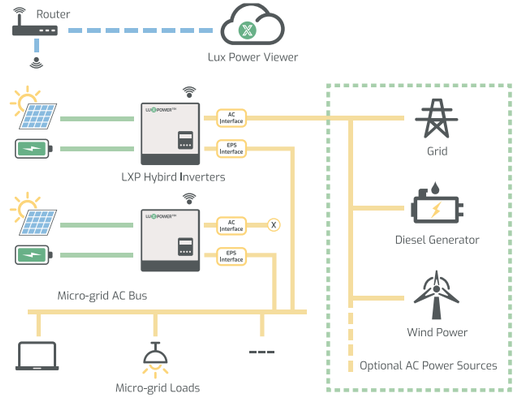
## / Parallel Connection

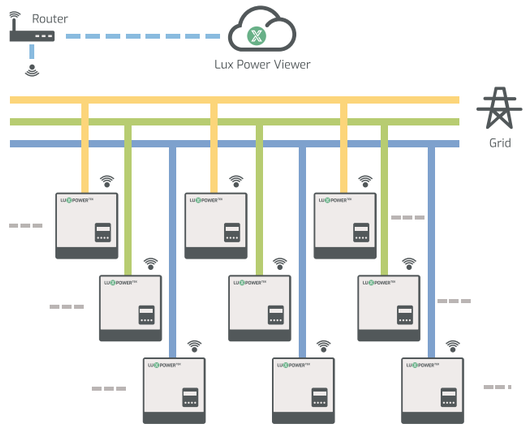
**Paralleling LXP inverters** in one phase to extend the single phase system capacity for either hybrid or AC coupled energy storage applications.

**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.



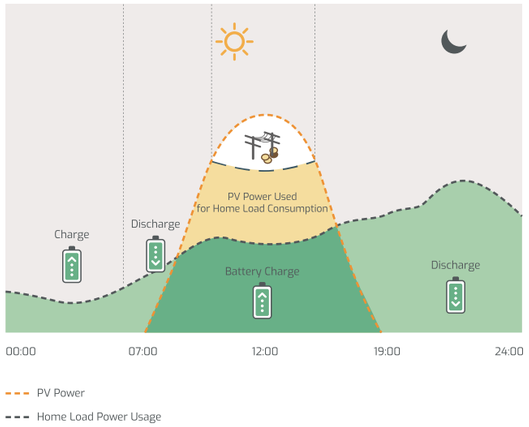



LXP Hybird or LXP ACS inverters

Hybrid Series

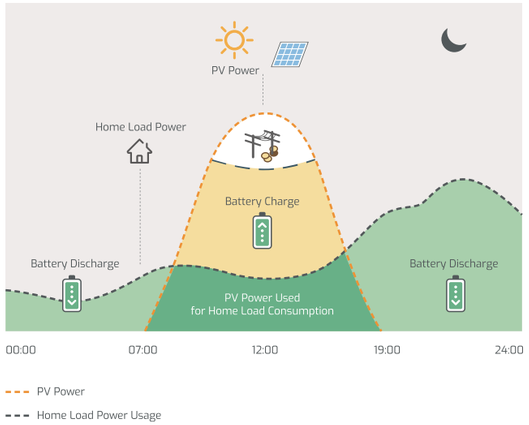
# How it works




## / 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.

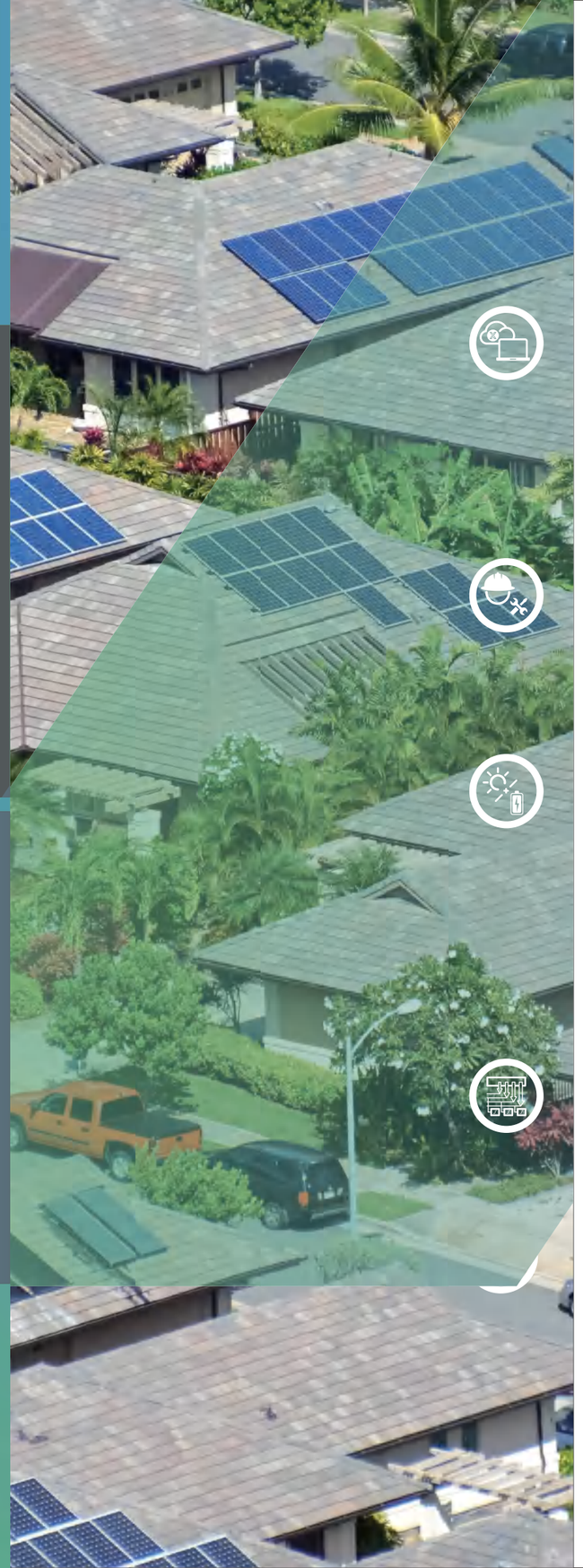



## / Self Consumption

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.





Your Reliable
Energy Solution
Partner

# Hybrid Series

## 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

## Smart EPS

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

## 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

## Advanced Parallel

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

## Key Features

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

## Hybrid Inverter

# LXP**3-6K**

- **Intelligent working modes**
- **Stronger EPS**
- **Easy to use with battery**
- **Advanced Parallel, up to 60kW**
- **IP65, indoor & outdoor use**
- **Plug & Play, seamless switching under 10ms**










## Specification

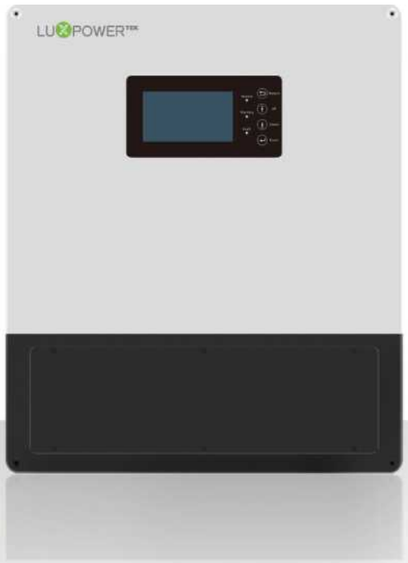
Your Reliable Energy Solution Partner

| Solar | LXP3K | LXP3.6K/4k | LXP4.6K/5K | LXP6K |
|---|---|---|---|---|
| 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 |
| MPPT Voltage Range | 100 - 500V.d.c | 100 - 500V.d.c | 100 - 500V.d.c | 100 - 500V.d.c |
| Start-up Voltage | 120V.d.c | 120V.d.c | 120V.d.c | 120V.d.c |
| MPPT Number | 2 | 2 | 2 | 2 |
| Max. DC Input Current | 13A/13A | 13A/13A | 13A/13A | 13A/13A |
| **Battery** | | | | |
| 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 | 80A/80A | 80A/80A |
| Max. Charge/Discharge Power | 3600W/3600W | 3600W/3600W | 4000W/4000W | 4000W/4000W |
| Charging Curve | 3 stages | 3 stages | 3 stages | 3 stages |
| Max. Charge Voltage | 59V | 59V | 59V | 59V |
| Capacity of Battery | 2-20kWh | 2-20kWh | 2-20kWh | 2-20kWh |
| **Grid** | | | | |
| Nominal AC Output Power | 3000W | 3600W/4000W | 4600W/5000W | 6000W |
| Max. AC Output Power | 3000VA | 3600VA/4000VA | 4600VA/5000VA | 6000VA |
| Max. AC Output Current | 15A | 16A/20A | 25A | 26A |
| 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 | | | |
| THDI | <3% | <3% | <3% | <3% |
| **EPS** | | | | |
| UPS Max. Output Power without Solar | 3000W | 3600W/4000W | 4000W | 4000W |
| UPS Max. Output Power with Solar | 3000W | 3600W/4000W | 5000W | 6000W |
| UPS Nominal Output Voltage | 230V.a.c | 230V.a.c | 230V.a.c | 230V.a.c |
| UPS Nominal Output Frequency | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| UPS Nominal Output Current | 13A | 15.6A/17.4A | 17.4A | 17.4A |
| Peak Power Without Solar | 4500W, 30s | 4500W, 30s | 4500W, 30s | 4500W, 30s |
| THDV | <5% | <5% | <5% | <5% |
| Switching Time | Typical 0.01s | Typical 0.01s | Typical 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** | | | | |
| Dimensions (W/H/D) | 455 / 476 (565) / 181 | 455 / 476 (565) / 181 | 455 / 476 (565) / 181 | 455 / 476 (565) / 181 |
| Weight | 20 kg | 20 kg | 20 kg | 20 kg |
| Topology | Tranformerless (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 | -25 - 60 | -25 - 60 | -25 - 60 |
| Altitude | <2000m | <2000m | <2000m | <2000m |
| Noise Emission | <25dB | <25dB | <25dB | <25dB |
| Standby Consumption | <5W | <5W | <5W | <5W |
| Display & Communication Interfaces | LCD, RS485, Wi-Fi, CAN | LCD, RS485, Wi-Fi, CAN | LCD, RS485, Wi-Fi, CAN | LCD, RS485, Wi-Fi, CAN |

## Hybrid Inverter

# LXP-LB -US 8-12kW
# LXP-LB -EU 8-12kW

- Stronger EPS
- Easy to use with battery
- Advanced parallel, up to 120kW
- 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
- Optional 10 year warranty for US
- Color LCD, IP65









## Specification LXP-LB 8-12kW

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| Battery Parameters | LXP 7·6K/8K | LXP 9K | LXP 10K | LXP 12K |
|---|---|---|---|---|
| Compatible Battery Type | Lead-acid/Lithium | Lead-acid/Lithium | Lead-acid/Lithium | Lead-acid/Lithium |
| Nominal Battery Voltage | 48V | 48V | 48V | 48V |
| Battery Voltage Range | 40V~60V | 40V~60V | 40V~60V | 40V~60V |
| Maximun Charging/Discharging Current | 167A/167A | 190A/190A | 210A/210A | 250A/250A |
| Maximun Charging/Discharging Power | 7600W/8000W | 9000W | 10000W | 12000W |
| **Input DC(PV Side)** | | | | |
| Max. DC Input Power for Single MPPT | 12000W/7000W/7000W | 12000W/7000W/7000W | 12000W/7000W/7000W | 12000W/7000W/7000W |
| Max. PV Input Power | 10000W | 14000W | 16000W | 18000W |
| DC Input Voltage Range | 100V~600V | 100V~600V | 100V~600V | 100V~600V |
| Nominal DC Input Voltage | 360V | 360V | 360V | 360V |
| Full Power MPPT Voltage Range | 170~500V | 190~500V | 210~500V | 230~500V |
| Max. DC Input Current | 25A/15A/15A | 25A/15A/15A | 25A/15A/15A | 25A/15A/15A |
| MPPT Number/(Strings per MPPT) | 3(2/1/1) | 3(2/1/1) | 3(2/1/1) | 3(2/1/1) |
| **Output/Inout AC(Grid)** | | | | |
| Nominal Power | 7600W/8000W | 9000W | 10000W | 12000W |
| Nominal AC Voltage | 240V<br>208V | 240V<br>208V | 240V<br>208V | 240V<br>208V |
| Operating Voltage Range | 180V-270V | 180V-270V | 180V-270V | 180V-270V |
| Max. Continuous AC Current | 33.3A@240V<br>38.5A@208V | 37.5A@240V<br>43A@208V | 41.6A@240V<br>48A@208V | 50A@240V<br>50A@208V |
| Nominal AC Frequency | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz |
| **UPS Output-with Battery** | | | | |
| UPS Max. Output Power | 7600W/8000W | 9000W | 10000W | 12000W |
| UPS Nominal Output Voltage | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V |
| UPS Nominal Output Frequency | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz |
| UPS Nominal Output Current | 33.3A@240V<br>38.5A@208V | 37.5A@240V<br>43A@208V | 41.6A@240V<br>48A@208V | 50A@240V<br>57.7A@208V |
| Peak Power | 1.1xPn,5min / 1.25xPn,1min / 1.5xPn,1s / 2xPn,0.1s | | | |
| Switching Time | <20ms | <20ms | <20ms | <20ms |
| **Efficiency** | | | | |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% |
| Max. Efficiency | 97.5% | 97.5% | 97.5% | 97.5% |
| EU Efficiency | 96.5% | 96.5% | 96.5% | 96.5% |
| Battery Charging Efficiency | 95% | 95% | 95% | 95% |
| Battery Discharging Efficiency | 94.5% | 94.5% | 94.5% | 94.5% |
| **Protection** | | | | |
| Anti-islanding Protection | YES | YES | YES | YES |
| DC Switch | YES | YES | YES | YES |
| Ingress Protect Degree | IP65 | IP65 | IP65 | IP65 |
| SPD Protection | YES | YES | YES | YES |
| AFCI | OPT | OPT | OPT | OPT |
| RSD | OPT | OPT | OPT | OPT |
| **General Data** | | | | |
| Dimension(mm) | 650*440*220 | 650*440*220 | 650*440*220 | 650*440*220 |
| Weight | 40kg | 40kg | 40kg | 40kg |
| Display | Color LCD | Color LCD | Color LCD | Color LCD |
| Topology | Transformer-less | Transformer-less | Transformer-less | Transformer-less |
| Ambient Temperature Range | -25~60℃ | -25~60℃ | -25~60℃ | -25~60℃ |
| Cooling | FAN | FAN | FAN | FAN |
| Communication | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN |
| **Standard & Certification** | | | | |
| EMC | | IEEE1547 FCC SDOC | | |
| Safety Standard | | UL 1741 | | |
| Grid Standdards | | IEEE1547 | | |

## Hybrid Inverter

# LXP-HB-US 8-12kW
# LXP-HB-EU 8-12kW

- Stronger EPS
- Easy to use with battery
- Advanced parallel, up to 120kW
- 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
- Optional 10 year warranty for US
- Color LCD, IP65










## Specification LXP-HB 8-12kW

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| Battery Parameters | LXP 7·6K/8K | LXP 9K | LXP 10K | LXP 12K |
|---|---|---|---|---|
| Compatible Battery Type | Lead-acid/Lithium | Lead-acid/Lithium | Lead-acid/Lithium | Lead-acid/Lithium |
| Nominal Battery Voltage | 380V | 380V | 380V | 380V |
| Battery Voltage Range | 250~480V | 250~480V | 250~480V | 250~480V |
| Maximun Charging/Discharging Current | 35A/35A | 35A/35A | 35A/35A | 42A/42A |
| Maximun Charging/Discharging Power | 7600W/8000W | 9000W | 10000W | 12000W |
| Max. Charging Voltage | 480V | 480V | 480V | 480V |
| **Input DC(PV Side)** | | | | |
| Max. DC Input Power for Single MPPT | 12000W/7000W/7000W | 12000W/7000W/7000W | 12000W/7000W/7000W | 12000W/7000W/7000W |
| Max. PV Input Power | 10000W | 14000W | 16000W | 18000W |
| DC Input Voltage Range | 100V~600V | 100V~600V | 100V~600V | 100V~600V |
| Nominal DC Input Voltage | 360V | 360V | 360V | 360V |
| MPPT Operating Voltage Range | 120~500V | 120~500V | 120~500V | 120~500V |
| Full Power MPPT Voltage Range | 170~500V | 190~500V | 210~500V | 230~500V |
| FStart-up Voltage(Ongrid) | 140V | 140V | 140V | 140V |
| Max. DC Input Current | 25A/15A/15A | 25A/15A/15A | 25A/15A/15A | 25A/15A/15A |
| MPPT Number/(Strings per MPPT) | 3(2/1/1) | 3(2/1/1) | 3(2/1/1) | 3(2/1/1) |
| **Output/Inout AC(Grid)** | | | | |
| Nominal Power | 7600W/8000W | 9000W | 10000W | 12000W |
| Nominal AC Voltage | 240V<br>208V | 240V<br>208V | 240V<br>208V | 240V<br>208V |
| Operating Voltage Range | 180V-270V | 180V-270V | 180V-270V | 180V-270V |
| Max. Continuous AC Current | 33.3A@240V<br>38.5A@208V | 37. 5A@240V<br>43A@208V | 41.6A@240V<br>48A@208V | 50A@240V<br>50A@208V |
| Nominal AC Frequency | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz |
| THDI | <3% | <3% | <3% | <3% |
| Power Factor | -0.8~+0.8 adjustable | -0.8~+0.8 adjustable | -0.8~+0.8 adjustable | -0.8~+0.8 adjustable |
| **UPS Output-with Battery** | | | | |
| UPS Max. Output Power | 7600W/8000W | 9000W | 10000W | 12000W |
| UPS Nominal Output Voltage | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V | 240V<br>208V<br>120V/240V<br>120V/208V |
| UPS Nominal Output Frequency | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz | 50Hz/60Hz |
| UPS Nominal Output Current | 33.3A@240V<br>38.5A@208V | 37. 5A@240V<br>43A@208V | 41.6A@240V<br>48A@208V | 50A@240V<br>57.7A@208V |
| Peak Power | 1.1xPn,5min / 1.25xPn,1min / 1.5xPn,1s / 2xPn,0.1s | | | |
| THDV | <3% | <3% | <3% | <3% |
| Switching Time | <20ms | <20ms | <20ms | <20ms |
| **Efficiency** | | | | |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% |
| Max. Efficiency | 97.5% | 97.5% | 97.5% | 97.5% |
| EU Efficiency | 96.5% | 96.5% | 96.5% | 96.5% |
| Battery Charging Efficiency | 96% | 96% | 96% | 96% |
| Battery Discharging Efficiency | 95% | 95% | 95% | 95% |
| **Protection** | | | | |
| Reverse Polarity 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 |
| Grid Monitoring | YES | YES | YES | YES |
| DC Switch | YES | YES | YES | YES |
| Ingress Protect Degree | IP65 | IP65 | IP65 | IP65 |
| SPD Protection | YES | YES | YES | YES |
| AFCI | OPT | OPT | OPT | OPT |
| RSD | OPT | OPT | OPT | OPT |
| **General Data** | | | | |
| Dimension(mm) | 650*440*220 | 650*440*220 | 650*440*220 | 650*440*220 |
| Weight | 40kg | 40kg | 40kg | 40kg |
| Display | Color LCD | Color LCD | Color LCD | Color LCD |
| Topology | Transformer-less | Transformer-less | Transformer-less | Transformer-less |
| Ambient Temperature Range | -25~60℃ | -25~60℃ | -25~60℃ | -25~60℃ |
| Standby losses | <15W | <15W | <15W | <15W |
| Cooling | FAN | FAN | FAN | FAN |
| Communication | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN | RS485/Wi-Fi/CAN |
| **Standard & Certification** | | | | |
| EMC | | IEEE1547 FCC SDOC | | |
| Safety Standard | | UL 1741 | | |
| Grid Standdards | | IEEE1547 | | |

## High Voltage Hybrid Inverter

# LXP**4-6k HB**

- **High voltage, higher efficiency**
- **Intelligent working modes**
- **Stronger EPS**
- **Easy to use with battery**
- **IP65, indoor & outdoor use**
- **Free monitoring & remote upgrade**
- **Advanced Parallel, up to 60kW**
- **Plug & Play, seamless switching under 10ms**








## Specification

Your Reliable Energy Solution Partner

| Solar | LXP4K HB | LXP5K HB | LXP6K HB |
|---|---|---|---|
| Max. DC Input Power | 7000W | 8000W | 8000W |
| DC Input Voltage Range | 90-550V.d.c | 90-550V.d.c | 90-550V.d.c |
| Grid Full-load MPPT Voltage | 100 - 500V.d.c | 100 - 500V.d.c | 100 - 500V.d.c |
| Start-up Voltage | 120V.d.c | 120V.d.c | 120V.d.c |
| MPPT Number | 2 | 2 | 2 |
| String per MPPT | 1/1 | 1/1 | 1/1 |
| Max. DC Input Current | 12.5A/12.5A | 12.5A/12.5A | 12.5A/12.5A |
| **Battery** | | | |
| Compatible Battery Type | Lead-Acid, Li-on etc. | Lead-Acid, Li-on etc. | Lead-Acid, Li-on etc. |
| Nominal Battery Voltage | 250V.d.c | 250V.d.c | 250V.d.c |
| Battery Voltage Range | 90 - 450V.d.c | 90 - 450V.d.c | 90 - 450V.d.c |
| Max. Charge/Discharge Current | 20A/20A | 25A/25A | 25A/25A |
| Max. Charge/Discharge Power | 4000W/4000W | 5000W/5000W | 6000W/6000W |
| Charging Curve | 3-stages | 3-stages | 3-stages |
| **Grid** | | | |
| Nominal AC Output Power | 4000W | 5000W | 6000W |
| Nominal AC Output Current | 17.5A | 21.7A | 26A |
| Max. AC Output Current | 22A | 27A | 30A |
| Nominal AC Voltage | 230V | 230V | 230V |
| Optional AC Voltage Range | 183~264V | 183~264V | 183~264V |
| Nominal AC Frequency | 50/60Hz | 50Hz / 60Hz | 50Hz / 60Hz |
| AC Frequency Range | 45-55Hz/55-65Hz | 45-55Hz/55-65Hz | 45-55Hz/55-65Hz |
| Power Factor | >0.99@rated power 0.8lagging-0.8 leading Adjustable | | |
| THDI | <3% | <3% | <3% |
| **EPS** | | | |
| UPS Nominal Power | 4000W | 5000W | 6000W |
| UPS Nominal Voltage | 230Vac | 230Vac | 230Vac |
| UPS Nominal Frequency | 50/60Hz | 50/60Hz | 50/60Hz |
| UPS Nominal Current | 17.5A | 21.7A | 21.7A |
| Peak Power | 5000W, 30s | 6200W, 30s | 6900W, 30s |
| THDV | <3%@R-load | <3%@R-load | <3%@R-load |
| Switching Time | Typical 0.01s | Typical 0.01s | Typical 0.01s |
| **Efficiency** | | | |
| MPPT Efficiency | >99% | >99% | >99% |
| Europe Efficiency | 96.5% | 96.3% | 96.3% |
| Max. Efficiency | 97.5% | 97.5% | 97.5% |
| Max. Charge/Discharge Efficiency | 97%/ 96.6% | 97%/ 96.6% | 97%/ 96.6% |
| **Protection** | | | |
| Reverse Polarity Protection | Yes | Yes | Yes |
| Over Voltage,Over Current | Yes | Yes | Yes |
| Anti-islanding Protection | Yes | Yes | Yes |
| AC Short-ciruit 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 | IP65 | IP65 |
| DC Switch | Integrated | Integrated | Integrated |
| **General** | | | |
| Dimensions (W/H/D) | 455 / 476 / 181 | 455 / 476 / 181 | 455 / 476 / 181 |
| Weight | 20 kg | 20 kg | 20 kg |
| Topology | Transformerless | Transformerless | Transformerless |
| Cooling Concept | Natural Convection | Natural Convection | Natural Convection |
| Relatively Humidity | 0-100% | 0-100% | 0-100% |
| Altitude | <2000m | <2000m | <2000m |
| Noise Emission | <25dB | <25dB | <25dB |
| Standby Consumption | <10W | <10W | <10W |
| Display/Communication Interface | LCD/ LED/RS485/ Wi-Fi/ CAN | LCD/ LED/RS485/ Wi-Fi/ CAN | LCD/ LED/RS485/ Wi-Fi/ CAN |
| Standard Warranty | 5 year | 5 year | 5 year |

## ECO Hybrid

# SNA**3-5K**

**With thousands of hybrid inverters & AC units installed around the world.**
**Lux power has stepped even futher to bringing power to every home, with or without grid power.**

**ECO Hybrid SNA 3-5K is now available for homes without grid. Inquire your local distributor, re-organize your power at home. No more blackouts.**







## ECO Hybrid

# How it works

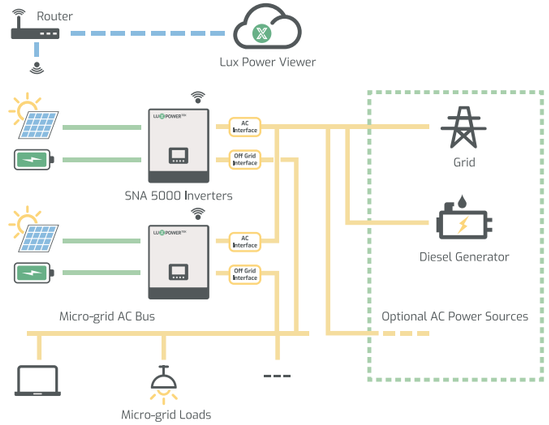
Your Reliable Energy Solution Partner

## / 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-effictive
- Environment-friendly

Can partially or completely replace diesel generator.
Flexible from 3 to 50kW

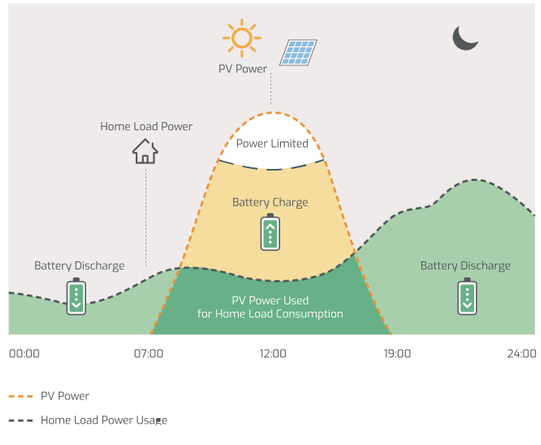



## / Working Mode

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.



## ECO Hybrid

# SNA**3-5K**

# Reclaim Your Power

- **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**





## Specification



| Output | SNA3000 | SNA4000 | SNA5000 |
|---|---|---|---|
| Rated power | 3000W/3000VA | 4000W/4000VA | 5000W/5000VA |
| Parallel capacity | YES | YES | YES |
| Normal output voltage | 230/240,Split phase 220/110 Vac * | 230/240,Split phase 220/110 Vac * | 230/240,Split phase 220/110 Vac * |
| Normal output frequency | 50/60Hz | 50/60Hz | 50/60Hz |
| Surge power | 6000VA | 8000VA | 10000VA |
| Switch time | 10ms | 10ms | 10ms |
| Wave form | Pure sine wave | Pure sine wave | Pure sine wave |
| **Battery** | | | |
| Battery Type | Lithium/Lead-Acid | Lithium/Lead-Acid | Lithium/Lead-Acid |
| Normal Voltage | 51.2V/48V | 51.2V/48V | 51.2V/48V |
| Max. Charge Voltage | 59V | 59V | 59V |
| **Solar** | | | |
| Max. Recommended PV Power | 3200W/3200W | 3200W/3200W | 3200W/3200W |
| MPPT Tracker | 2 | 2 | 2 |
| DC Input Voltage Range | 100-480Vdc | 100-480Vdc | 100-480Vdc |
| MPPT Voltage Range | 100-385Vdc | 100-385Vdc | 100-385Vdc |
| Start-up Voltage | 120Vdc | 120Vdc | 120Vdc |
| Max. Solar Charge Current | 110A | 110A | 110A |
| Max. Solar Input Current | 13A/13A | 13A/13A | 13A/13A |
| Max. MPPT Efficiency | >98% | >98% | >98% |
| **Grid** | | | |
| Normal Voltage | 230Vac | 230Vac | 230Vac |
| AC Voltage Range | 110-280Vac | 110-280Vac | 110-280Vac |
| Max. Charge Current | 60A | 60A | 60A |
| Frequency Range | 50/60Hz(Auto Sensing) | 50/60Hz(Auto Sensing) | 50/60Hz(Auto Sensing) |
| **General** | | | |
| Dimensions(W/H/D) | 330x504x135mm | 330x504x135mm | 330x504x135mm |
| Weight | 14Kg | 14Kg | 14Kg |
| Protection Degree | IP20 | IP20 | IP20 |
| Relative Humidity | 5%~95% Relative Humidity (Non-condensing) | | |
| Operating Temperature | 0°C~50°C | 0°C~50°C | 0°C~50°C |
| Storage Temperature | -15°C~60°C | -15°C~60°C | -15°C~60°C |
| **Inter** | | | |
| Display | LCD+LED | LCD+LED | LCD+LED |
| Lithium Battery Communication | CAN/RS485 | CAN/RS485 | CAN/RS485 |
| RS485/Dry Connector | YES/YES | YES/YES | YES/YES |
| Wifi/GPRS | YES/YES | YES/YES | YES/YES |
| Warranty | 2 year | 2 year | 2 year |

*For Split phase version

LUXPOWERTEK

# AC Coupled Series

- LXP ACS 3600
- LXP SQPOD 3600

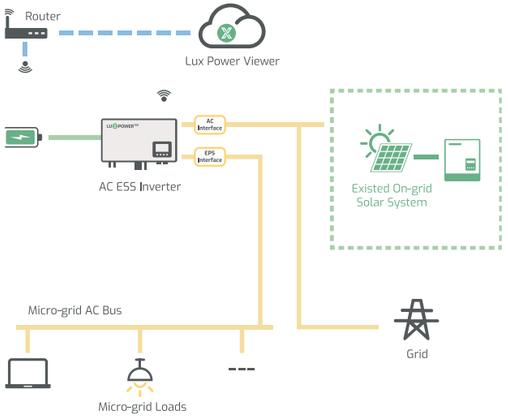
## One Step to Retrofit Your Solar System

Your Reliable Energy Solution Partner



AC Coupled Series

# How it works




## / System Connection

To retrofit existing on-grid solar system to energy storage hybrid system.

It couldn't be easie than installing a LXP. AC series inverter coupled on AC side with a battery pack.

## Smart EPS

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

## Advanced Parallel for SQPOD

- Up to10 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

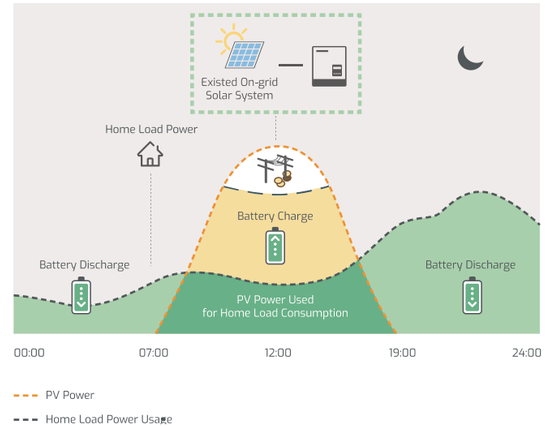
## Easy to use with battery

- 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

**A real plug & play unit that helps you do all in one step.**

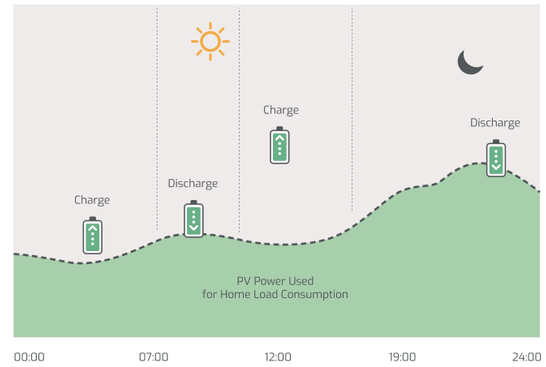
## / Self Consumption

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.



## AC Coupled Inverter

# LXP ACS **3600**

- **Stronger EPS**
- **Intelligent working modes**
- **Generator interface available**
- **Easy to use with battery**
- **IP65, indoor & outdoor use**
- **Free monitoring & remote upgrade**
- **Retrofit any on-grid systems to be able to run battery**
- **Plug & Play, seamless switching under 10ms**








## Specification

Your Reliable Energy Solution Partner

| Battery | ACS 3.6k |
|---|---|
| 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 |

| 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 -0.8lagging) |
| THDI | <3% |
| 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 |
| THDV(linear load) | <3% |
| Switching Time | Typical 0.01s |
| 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, CAN |

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

## AC Coupled Inverter

# LXP SQPOD **3600**

- **Stronger EPS**
- **Intelligent working modes**
- **Generator interface available**
- **IP65, indoor & outdoor use**
- **Free monitoring & remote upgrade**
- **Advanced Parallel, up to 36kW**
- **Plug & Play, seamless switching under 10ms**
- **Retrofit any on-grid systems to be able to run battery**








## Specification

Your Reliable Energy Solution Partner

| Battery | SQPOD 3.6k |
|---|---|
| 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 |

| 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 -0.8lagging) |
| THDI | <3% |
| 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 |
| THDV(linear load) | <3% |
| Switching Time | Typical 0.01s |
| 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, CAN |

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

DC/DC

# LXP **100K**

- **Retrofit on grid system to energy storage hybrid system**
- **DC coupled, 24strings Solar input and 12 strings output**
- **Advanced power management**
- **IP65 design, quick installation**
- **Touch screen, free monitor**
- **Handy apps available on mobile**
- **Flexible accout settings for multi level type users**








## Specification

Your Reliable Energy Solution Partner

| Input | LSP 100k |
|---|---|
| Max. input power | 200kW |
| Max. input voltage | 1,000V |
| input nominal voltage | 630V |
| 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 |
| MAX charge and discharge power | 100kW |
| Voltage range | 300~700Vdc |
| MAX charge and discharge current | 200A |
| Max charge and discharge efficiency | 98.7%(TBD) |

| Protection | |
|---|---|
| DC Reverse-polarity Protection | Yes |
| DC Surge Arrester | Type II |

| Communication | |
|---|---|
| Display | LED+LCD/Touch botton |
| WiFi | 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 Humidity(Non-condensing) |
| Operating Temperature Range | -25℃ ~ 60℃ |
| Connector(PV input and Output) | Amphenol UTX |
| Max. Operating Altitude | 2000m |
| Warranty | 5 year |

| Standards | EN 62109-a1/-2, IEC 62109-1/-2 |
|---|---|

LUXPOWER TEK

# Top Energy Storage App

## Nominated by LeapDroid UK

https://leapdroid.com/?p=6076

Android

IOS






LUXPOWER TEK

Your Reliable Energy Solution Partner

# Intelligent Power Management System

**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.**

5th floor, A Zone Of Building 11,
Hengchangrong High-Tech Industrial Park,
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LUXPOWERTEK

# Certificate



























