

LXP3-6K

HYBRID INVERTER

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



SPECIFICATION

| Solar | LXP-3K Hybrid | LXP-3.6K Hybrid LXP-4K Hybrid | LXP-4.6K Hybrid LXP-5K Hybrid | LXP-6K 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 |
| MPPT Voltage Range | 120 - 500V.d.c | 120 - 500V.d.c | 120 - 500V.d.c | 120 - 500V.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 | 13A/13A |
| Max short circuit current per MPPT | 12.5A | 13.7A | 13.7A | 13.7A |
| Min inverter operating DC voltage | 120V | 120V | 120V | 120V |
| 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 |
| Rated Apparent 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% |
| UPS | | | | |
| 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-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 | | | | |
| 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 | | 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 | -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, Ethernet | LCD, RS485, Wi-Fi, Ethernet | LCD, RS485, Wi-Fi, Ethernet | LCD, RS485, Wi-Fi, Ethernet |
| Manufacturing country | China | China | China | China |