

HYBRID SERIES

Single-Phase

LXP-LB-EU 12K

- 3 MPPTs, Max. 18kW of PV input
- 12kW UPS output for backup during power cuts
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching
- Separate port for
 - Generator connection
 - Auto generator control
 - Support generator exercise
 - Support generator boost function
 - Or smart load connection and auto control
 - Or AC coupling function



Specification

| INPUT (PV DC) | | LXP-LB-EU 12K |
|--|--|---|
| Max. PV array power(W) | | 18000 |
| Rated PV input voltage(V) | | 360 |
| Number of independent MPPT inputs | | 3/(2:1) |
| PV input voltage range(V) | | 100~600 |
| MPPT voltage range(V) | | 120~500 |
| Start-up voltage(V) | | 140 |
| Max. PV input current per MPPT(A) | | 25/15/15 |
| Max. PV short-circuit current input per MPPT(A) | | 31/19/19 |
| Battery | | |
| Compatible battery type | | Lithium-ion/Lead-Acid |
| Rated battery voltage(V) | | 48 |
| Battery voltage range(V) | | 40~60 |
| Max. charge/discharge current(A) | | 250 |
| Max. charge/discharge power(W) | | 12000 |
| Force wake up battery from PV function(Y/N) | | YES |
| Grid | | |
| Rated AC voltage(V) | | 230 |
| Rated AC frequency(Hz) | | 50/60 |
| Rated AC output current(A) | | 50 |
| Rated AC output power(W) | | 11500 |
| Max. AC input current(A) | | 200 |
| PF | | 0.99 (Adjustable from 0.8 leading to 0.8 lagging) |
| THDI | | <3% |
| Max. continuous AC passthrough current(A) | | 200 |
| UPS | | |
| Rated output power(W) | | 11500 |
| Rated output voltage(V) | | 230 |
| Rated output current(A) | | 50 |
| Rated output frequency(Hz) | | 50/60 |
| Surge power, duration | | 2Pn, 0.5s |
| Switching time | | 20ms |
| Wave form | | Sine wave |
| THDV | | 3% |
| Efficiency | | |
| MPPT efficiency | | 99.9% |
| Max. efficiency | | 97.5% |
| Max. charge efficiency | | 94.0% |
| Max. discharge efficiency | | 94.0% |
| Protection | | |
| PV reverse polarity protection | | YES |
| Over current/voltage protection | | YES |
| Anti-islanding protection | | YES |
| AC Short-circuit current protection | | YES |
| Leakage current protection | | YES |
| Ground fault monitoring | | YES |
| Grid monitoring | | YES |
| DC Switch | | YES |
| AC/DC Surge protection Type III | | YES |
| General | | |
| Dimensions(W*H*D) | | 490*670*265mm/19.3*26.3*10.4inch |
| Weight | | 50kg/110.2lbs |
| Ingress protection rating | | IP65 |
| Relative humidity | | 0~100% |
| Operating environment temperature range(°C) | | -25~60°C, >45°C Derating |
| Storage temperature range(°C) | | -25~60 |
| Display & Communication interface | | Touch color screen, RS485/Wi-Fi/CAN |
| Warranty | | 5 years |
| Cooling method | | Smart Cooling |
| Topology | | Transformer-less |
| Altitude | | <2000m |
| Noise emission(typical) | | <50dB |
| Standards & Certification | | |
| EMC SANS 211:2010, CISPR 2015+A1:2016, IEC 61000-2-2-2012+A1:2017+A2:2018, Cape Town list, G99, G100, NRS 097-2-1:2017 | | |