

# HYBRID SERIES

## Split-Phase

# LXP-LB-US 12K

- 3 MPPTs with 6 strings input, Max. 18kW PV input
- 200A grid passthrough for whole home backup
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching
- Peak shaving function
- AFCI protection integrated
- 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-US 12K                                     |
|---|--|---|
| Max. PV array power(W)                          |  | 18000   |
| Rated PV input voltage(V)                       |  | 360   |
| Number of independent MPPT inputs               |  | 3/(2:1:1)   |
| 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          |  | YES   |
| Grid  |  |   |
| Rated AC voltage(V)                             |  | 240/208   |
| Rated AC frequency(Hz)                          |  | 60  |
| Rated AC output current(A)                      |  | 50  |
| Rated AC output power(W)                        |  | 12000   |
| 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)                           |  | 12000   |
| Rated output voltage(V)                         |  | 120/240; 120/208                                  |
| Rated output current(A)                         |  | 50  |
| Rated output frequency(Hz)                      |  | 60  |
| Surge power, duration                           |  | 2Pn, 0.5s   |
| Switching time                                  |  | 20ms  |
| Wave form                                       |  | Sine wave   |
| THDV  |  | <3%   |
| Efficiency                                      |  |   |
| Max. MPPT efficiency                            |  | 99.9%   |
| Max. efficiency                                 |  | 97.5%   |
| Battery charge/discharge efficiency             |  | 94.0%   |
| CEC efficiency                                  |  | 96.9%   |
| Protection                                      |  |   |
| PV reverse polarity protection                  |  | YES   |
| Over current/voltage protection                 |  | YES   |
| Anti-islanding protection                       |  | YES   |
| AC Short-circuit protection                     |  | YES   |
| Leakage current protection                      |  | YES   |
| DC switch                                       |  | YES   |
| AC/DC surge protection Type III                 |  | YES   |
| Rapid shut down                                 |  | YES   |
| Grid/AFCI/RSD monitoring                        |  | YES   |
| Load breaker(Current)                           |  | 200A  |
| Battery breaker(Current/Voltage)                |  | 2*200A/80V  |
| General   |  |   |
| Dimensions(W*H*D)                               |  | 520*870*285mm/20.5*34.2*11.2inch                  |
| Weight  |  | 55kg/121.2lbs                                     |
| Ingress protection rating                       |  | IP65/NAME 4X                                      |
| 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  |  | 5/10 years  |
| Cooling method                                  |  | Smart Cooling                                     |
| Topology  |  | Transformer-less                                  |
| Altitude  |  | <2000m  |
| Standards & Certification                       |  |   |

E5000, SA17-18, CSA STD. C22.2 No.107.1 and 330, UL STD.1741, 1741SB, UL1998:2018, IEEE STD.1547 and 1547.1  
IEEE STD. HECO SRD-IEEE-1547.1, ETL, CETLus, America CEC List, NEC. section690.12, FCC