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

Your Reliable Energy Solution Partner

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 intput 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 protecion	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