

HYBRID SERIES

LXP-LB-US 12K

- 3 MPPTs with 4 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



Model	LXP-LB-US 12K
Input(PV DC)	
Max. PV input 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. charging/discharging current (A)	250
Max. charging/discharging power (W)	12000
Force wake up battery from PV function	YES
Gird	
Rated AC voltage(V)	240/208
Rated AC frequency (Hz)	60
Rated AC output current	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
GEN	
Rated GEN voltage (V)	120/240; 120/208
Rated GEN frequency (Hz)	60
Rated GEN input current (A)	62.5
Rated GEN input power (W)	15000
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
Rapid shut down	YES
Grid/AFCI/RSD monitoring	YES
Load breaker (Current/Voltage)	200A
Battery breaker (Current/Voltage)	2*200A/80V
General	
Dimensions (W*H*D)	520*870*285mm / 20.5*34.2*11.2 in
Weight	50kg / 110lbs
Ingress protection rating	IP65/NEMA 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	
UL 1741SA, UL 1741SB, CSA C22.2, UL 1741PCS CRD, CEC, FCC Part15B, IEEE 1547.1	