

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
<b>Input (PV DC)</b>		
Max. PV input power (W)		18000
Rated PV input voltage (V)		360
Number of independent MPPT inputs		3 / (2:1:1)
Max. PV input voltage (V)		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
<b>Battery</b>		
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
<b>Grid</b>		
Rated AC voltage (V)		120 / 240; 120 / 208
Rated AC frequency (Hz)		50 / 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
<b>GEN</b>		
Rated GEN voltage (V)		120 / 240; 120 / 208
Rated GEN frequency (Hz)		50 / 60
Rated GEN input current (A)		62.5
Rated GEN input power (W)		15000
<b>UPS</b>		
Rated output power (W)		12000
Rated output voltage (V)		120 / 240; 120 / 208
Rated output current (A)		50
Rated output frequency (Hz)		50 / 60
Surge power, duration		2 × rated power for 0.5s
Switching time		20ms
Wave form		Sine wave
THDV		< 3%
<b>Efficiency</b>		
Max. MPPT efficiency		99.9%
Max. efficiency		97.5%
Battery charge / discharge efficiency		94.0%
CEC efficiency		96.9%
<b>Protection</b>		
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)		200A
Battery breaker (Current/Voltage)		2*200A/80V
<b>General</b>		
Dimensions (W × H × D)		520 × 870 × 285 mm / 20.5 × 34.2 × 11.2 in
Weight		55 kg / 121.2 lbs
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		Transformerless
Max. Operating Altitude (m)		2000
<b>Standards &amp; Certification</b>		
UL 1741SA, UL 1741SB, CSA C22.2, UL 1741PCS CRD, CEC, FCC Part15B, IEEE 1547.1		