

HYBRID SERIES

LXP-LB-US 12K

- 3 MPPTs, Max. 18kW 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



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)
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
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 (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
GEN		
Rated GEN voltage (V)		230
Rated GEN frequency (Hz)		50 / 60
Rated GEN input current (A)		65
Rated GEN input power (W)		15000
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		2 × rated power for 0.5s
Switching time		20 ms
Wave form		Sine wave
THDV		3%
Efficiency		
MPPT efficiency		99.9%
EU efficiency		96.0%
Max. efficiency		97.5%
Max. charge / discharge efficiency		94.0%
Protection		
PV reverse polarity protection		YES
Over current / voltage protection		YES
Anti-islanding protection		YES
AC short-circuit protection		YES
Leakage current protection		YES
Ground fault monitoring		YES
Grid monitoring		YES
DC switch		YES
AC/DC surge protection		Type III
General		
Dimensions (W × H × D)		490 × 670 × 265 mm / 19.3 × 26.3 × 10.4 in
Weight		50 kg / 110.2 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		Transformer-less
Max. Operating Altitude (m)		2000
Noise emission (dB)		50
Standards & Certification		
UL 1741SA, UL 1741SB, CSA C22.2, UL 1741PCS CRD, CEC, FCC Part15B, IEEE 1547.1		