

HYBRID SERIES

Split Phase

LXP-LB-US 12K

- 3 MPPT inputs, Max. up to 18 kW
- 200A AC bypass current for whole home backup
- Peak shaving function
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching under 10ms
- Separate GEN port
- Smart load prioritize necessities
- Up to 21.6kW Gen/AC coupling input



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
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
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%
Rated AC current of BYPASS relays(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 charging/discharging 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 switch(Current)		200A
Battery switch(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		-25~60°C, >45°C Derating
Storage temperature range		-25~60°C
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, SA:2018, 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		