HYBRID SERIES

Split Phase

LXP-LB-US **12k**

- ● **AC coupling function**
- ● **Peak shaving function**
- ● **Smart load control**
- ● **Support up to 10pcs in parallel**
- ● **12kW UPS output split phase**
- ● **LCD color touch screen**
- ● **3 MPPT inputs, maximum up to 18 kW**
- ● **Breakers (Load and battery) are integrated**
- ● **200A AC bypass current**
- ● **Separate generator interface available**
- ● **Integrated UPS module, on/off grid seamless switching under 20ms**

LU**X**POWER™

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)	120 480
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)	120/240; 120/208
Rated AC frequency(Hz)	60
Rated AC output current(A)	50
Rated AC output power(W)	12000
Max. AC intput current(A)	100
Max. AC intput power(W)	24000
PF	0.99
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	95.0%
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
UPS switch(Current/Voltage)	200A/250V
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	IP 65/ NAME 4X
Relative humidity	0 100%
Operating environment temperature range	-25 60℃
Storage temperature range	-25 60℃
Display & Communication interface	Touch color screen, RS485/Wi-Fi/CAN
Warranty	5 years
Cooling method	FAN
Topology	Transformer-less
Altitude	<2000m
Noise emission(typical)	<50dB
Standards & Certification	
UL 1741: 2021, CSA C22.2#1071:2016, CSA C22.2#330:2017, IEEE1547:2018, HECO SRD, IEEE-1547.1:2020, CEC, FCC SDOC, NEC Section 690.12	