

IVLPLBUS12K IVLPLBUS10K IVLPLBUS8K

Maple Leaf Supported
Luxpower Hybrid Inverters



Powerfull Hybrid Solution

The LXP-LB-US 8-10K and 12K hybrid inverter series is a reliable and versatile solution for two-phase power systems. Compatible with all battery types and brands, it's supported by an extended 10-year warranty from Maple Leaf Power Systems. With an AC coupling function, peak shaving capabilities, and integrated breakers for AC, generator load, and battery, it ensures efficient energy management. Supporting up to 10 units in parallel, it offers smart load control and a separate generator interface for uninterrupted power supply. The Plug & Play design, coupled with a LCD color touchscreen, ensures easy operation and monitoring.

Warranty



**Material and
Workmanship
Warranty**

Key Features



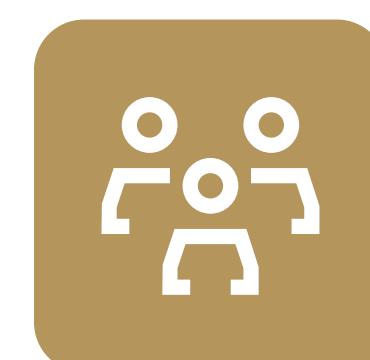
AC coupling function

For easy integration with existing grid tied systems



Peak shaving function

Take advantage of low electrical rates during peak times.



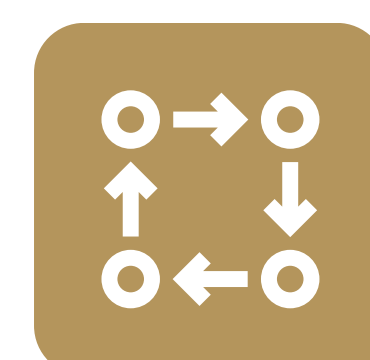
Support up to 10pcs in parallel

Provides easy expandability and versatility for all use cases



Load and battery Breakers Included

Built in breakers to create an easy and safe installation



200A AC bypass current (12K only)

seamlessly switch to grid power in case of system maintenance or failure



Off/On Grid Switching Under 20ms

Integrated UPS module, on/off grid seamless switching under 20ms

IVLPLBUS12K

LXP-12K-US



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°C
Storage temperature range	-25-60°C
Display & Communication interface	Touch color screen, RS485/Wi-Fi/CAN
Warranty	10 years
Cooling method	FAN
Altitude	<2000m
Noise emission(typical)	<50dB
Topology	Transformer-less

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
UPS switch(Current/Voltage)	200A/250V
Battery switch(Current/Voltage)	2 *200A/80V

INPUT (PV DC)

Max. PV array power(W)	21,000
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

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



Efficiency

Max. MPPT efficiency	99.9%
Max. efficiency	97.5%
Battery charging/discharging efficiency	95.0%
CEC efficiency	96.9%

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 input current(A)	100
Max. AC input power(W)	24000
PF	0.99
THDI	<3%
Rated AC current of BYPASS relays(A)	200

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

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%

*** The information and measurements in this datasheet have been assessed under Standard Test Conditions, so there may be slight differences from real-world findings. Maple Leaf and its associated entities retain the right to change the information given within this datasheet without prior notice. Our goal is to provide clients with the most recent product information. You can find these datasheets in the downloading section of our product description.



IVLPLBUS10K

LXP-10K-US



General

Dimensions(W * H *D)	520 *750 *285mm/20.5 *29.5 *11.2inch
Weight	55kg/110lbs
Ingress protection rating	IP 65/ NAME 4X
Relative humidity	0-100%
Operating environment temperature range	-25-60°C
Storage temperature range	-25-60°C
Display & Communication interface	Touch color screen, RS485/Wi-Fi/CAN
Warranty	10 years
Cooling method	FAN
Altitude	<2000m
Noise emission(typical)	<50dB
Topology	Transformer-less

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
UPS switch(Current/Voltage)	63A/480V
Battery switch(Current/Voltage)	250A/80V

INPUT (PV DC)

Max. PV array power(W)	16000
Rated PV input voltage(V)	360
Number of independent MPPT inputs	2
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)	25/25
Max. PV short-circuit current input per MPPT(A)	31/31

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, CETL, America CEC List, NEC. section690.12, CEC, UL9540



Efficiency

Max. MPPT efficiency	99.9%
Max. efficiency	97.5%
Battery charging/discharging efficiency	94.0%
CEC efficiency	96.4%

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)	10000
Max. AC input current(A)	63
Max. AC input power(W)	10000
PF	0.99
THDI	<3%
Rated AC current of BYPASS relays(A)	63

Battery

Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage(V)	48
Battery voltage range(V)	40-60
Max. charging/discharging current(A)	210
Max. charging/discharging power(W)	10000
Force wake up battery from PV function	YES

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%

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IVLPLBUS10K

LXP-8K-US



General

Dimensions(W * H *D)	520 *750 *285mm/20.5 *29.5 *11.2inch
Weight	55kg/110lbs
Ingress protection rating	IP 65/ NAME 4X
Relative humidity	0-100%
Operating environment temperature range	-25-60°C
Storage temperature range	-25-60°C
Display & Communication interface	Touch color screen, RS485/Wi-Fi/CAN
Warranty	10 years
Cooling method	FAN
Altitude	<2000m
Noise emission(typical)	<50dB
Topology	Transformer-less

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
UPS switch(Current/Voltage)	63A/480V
Battery switch(Current/Voltage)	250A/80V

INPUT (PV DC)

Max. PV array power(W)	12000
Rated PV input voltage(V)	360
Number of independent MPPT inputs	2
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)	25/25
Max. PV short-circuit current input per MPPT(A)	31/31

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, CETL, America CEC List, NEC. section690.12, CEC, UL9540



Efficiency

Max. MPPT efficiency	99.9%
Max. efficiency	97.5%
Battery charging/discharging efficiency	94.0%
CEC efficiency	96.4%

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)	8000
Max. AC input current(A)	63
Max. AC input power(W)	8000
PF	0.99
THDI	<3%
Rated AC current of BYPASS relays(A)	63

Battery

Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage(V)	48
Battery voltage range(V)	40-60
Max. charging/discharging current(A)	167
Max. charging/discharging power(W)	8000
Force wake up battery from PV function	YES

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%

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