

YOUR RELIABLE ENERGY SOLUTION PARTNER











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MARKET LAYOUT







LuxpowerTek, a solar inverter industry leader, brings over 20 years of expertise in designing intelligent energy solutions for both electrified and off-grid areas globally. With a strategic presence in major regions, LuxpowerTek has successfully installed over 300,000 solar inverter systems. Our user-centric approach prioritizes addressing concerns and feedback, ensuring continuous improvement.

LuxpowerTek offers comprehensive, robust energy storage solutions for residential and commercial applications, shaping a sustainable energy future.

• SPLIT-PHASE



LXP-LB-US 5-10K



LXP-LB-US 12K

P05



GEN-LB-US 13K



GEN-LB-US 16K

P09

U@ POMES***

GEN-HB-US 25K

P11

• THREE-PHASE



TriP2-LB-US-3P 5-10K **P13**



TriP2-HB-US-3P 6-15K **P15**

CATALOGUE

OFF-GRID





P19

SNA-US 6K

P21



PowerHub



Intelligent Working Modes

- Weather compensation and smart octopus charging packages
- Self consumption mode for high tariff areas
- Charge priority mode for areas where grid power is unstable
- Force charge & discharge mode for variable tariff integration

Smart EPS (Emergency Power Supply)

- Plug & Play integrated changeover, seamless switching under 20ms
- Auto backup power for critical load emergency supply

Intelligent Battery Integration

- Remote upgrade for battery management system (BMS) firmware
- Wide range of compatible battery brands
- Auto "wake-up" function of lithium battery from sleep mode
- Essential info uploaded to LUX server for quick ESS diagnosis
- Battery sharing with multi-inverters in single-phase or threephase

Advanced Parallel Units (Parallel Versions)

- Up to 10 units parallel
- Single-phase and unbalanced three-phase paralleling

Key Features

- High PV input power
- High charge/discharge rates
- Light, fast & easy installation
- Free Wi-fi monitoring on mobile&PC
- Multi-phase output on different hybrid models
- Generator interface available



LXP-LB-US 5-10K

- 2 MPPTs with 4 strings input, Max. PV input 15kW
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching
- Peak shaving function
- AFCI protection integrated
- Breakers (Grid, Gen, Load and Battery) are 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





03 /04

Model	LXP-LB-US 5K	LXP-LB-US 8K	LXP-LB-US 10K	
Input(PV DC)	<u> </u>	EXI-CD-03-0K	LAF-LD-03 TUK	
Max. PV input power (W)	8000	12000	15000	
Rated PV input voltage (V)		360	-	
Number of independent MPPT inputs	2/(2:2)			
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		
Battery				
Compatible battery type		Lithium-ion/Lead-Acid		
Rated battery voltage (V)		48		
Battery voltage range (V)	115	40~60		
Max. charging/discharging current (A)	5000	167	210	
Max. charging/discharging power (W) Force wake up battery from PV function	5000	8000	10000	
Gird		YES		
Rated AC voltage(V)		120/240; 120/208		
Rated AC frequency (Hz)		,		
Rated AC output current	20.8A@240V/24A@208V	60 33.3A@240V/38.5A@208V	41.6A@240V/48A@208V	
Rated AC output current Rated AC output power (W)				
· ·	5000	8000 63	10000	
Max. AC intput curren (A) PF	40	0.8 leading to 0.8 lag		
THDI	0.95	3%	55'''5/	
UPS		570		
Rated output power (W)	5000	8000	10000	
Rated output voltage (V)		120/240; 120/208		
Rated output current (A)	20.8A@240V/24A@208V	33.3A@240V/38.5A@208V	41.6A@240V/48A@208V	
Rated output frequency (Hz)		60		
Surge power, duration		2Pn, 0.5s		
Switching time		20ms		
Wave form		Sine wave		
THDV		<3%		
GEN				
Rated GEN voltage (V)		120/240; 120/208		
Rated GEN frequency (Hz)		60		
Rated GEN input current (A)		30		
Rated GEN input power (W)		7200		
Efficiency				
Max. MPPT efficiency		99.9%		
Max. efficiency		97.5%		
Battery charge/discharge efficiency	94.0%			
CEC 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 protecion		YES		
DC switch		YES		
AC/DC surge protection		YES		
Rapid shut down		YES		
Grid/AFCI/RSD monitoring		YES		
Grid/GEN breaker (Current/Voltage)		63A/480V		
Load breaker (Current/Voltage)	63A/480V			
Battery breaker (Current/Voltage) General		250A/80V		
Dimensions (W*H*D)		520*750*285mm / 20.5*29.5*11.2 in		
Weight		50kg / 110lbs		
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) Display & Communication interface		-25~60 Touch color screen, RS485/Wi-Fi/CAN	<u> </u>	
Warranty		5/10 years	•	
Cooling method		Smart Cooling		
Topology		Transformer-less		
Altitude	<2000m			
Standards & Certification				

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



Input(PV DC)

Max. PV input power (W)

Rated PV input voltage (V)

PV input voltage range (V)

MPPT voltage range (V)

Compatible battery type

Rated battery voltage (V)
Battery voltage range (V)

Start-up voltage (V)

Battery

Number of independent MPPT inputs

Max. PV input current per MPPT (A)

Max. charging/discharging current (A)

Max. charging/discharging power (W)

Force wake up battery from PV function

Max. PV short-circuit current input per MPPT (A)



Gird 240/208 Rated AC voltage(V) Rated AC frequency (Hz) 60 50 Rated AC output current Rated AC output power (W) 12000 Max. AC intput curren (A) 200 PF 0.99 (Adjustable from 0.8 leading to 0.8 lagging) THDI <3% Max. continuous AC passthrough current (A) 200 Rated GEN voltage (V) 120/240; 120/208 Rated GEN frequency (Hz) 60 62.5 Rated GEN input current (A) Rated GEN input power (W) 15000 UPS 12000 Rated output power (W) 120/240; 120/208 Rated output voltage (V) Rated output current (A) Rated output frequency (Hz) 60 2Pn. 0.5s Surge power, duration Switching time 20ms Wave form Sine wave THDV Efficiency Max. MPPT efficiency 99.9% Max. efficiency 97.5% Battery charge/discharge efficiency 94.0% CEC efficiency 96.9% Protection PV reverse polarity protection YES Over current/voltage protection YES Anti-islanding protection YES YES AC short-circuit protection Leakage current protecion YES DC switch YES Type III AC/DC surge protection YES Rapid shut down YES Grid/AFCI/RSD monitoring 200A Load breaker (Current/Voltage) 2*200A/80V Battery breaker (Current/Voltage) General Dimensions (W*H*D) 520*870*285mm / 20.5*34.2*11.2 in Weight 50kg / 110lbs Ingress protection rating IP65/NEMA 4X 0~100% Relative humidity Operating environment temperature range (°C) -25~60°C, > 45°C Derating Storage temperature range (°C) -25~60 Touch color screen, RS485/Wi-Fi/CAN Display & Communication interface Warranty 5/10 years Cooling method **Smart Cooling** Topology Transformer-less <2000m Standards & Certification UL 1741SA, UL 1741SB, CSA C22.2, UL 1741PCS CRD, CEC, FCC Part15B, IEEE 1547.1

18000

360

3/(2:1:1)

100~600

120~500 140

25/15/15

31/19/19

Lithium-ion/Lead-Acid

40~60

250

12000

YES

GEN-LB-US 13K

- 2 MPPTs with 4 strings input, Max. 21kW PV input
- Supports up to 10pcs in parallel for on/off grid
- Peak shaving function
- Auto start/stop, works with battery and PV for load support.
- AC coupling function to retrofit the existing grid-tied system
- Remote Monitoring & Al Optimization





Altitude
07 /08

Standards & Certification

UL 1741SA, UL 1741SB, CSA C22.2, CEC, FCC Part15B, IEEE 1547.1, HECO SRD V2.0

Model	GEN-LB-US 13K	
Input(PV DC)		
Max. PV array power (W)	21000	
Max. PV input power (W)	18000	
Rated PV input voltage (V)	360	
Number of independent MPPT inputs	2/(2:2)	
PV input voltage range (V)	100~550	
	120~440	
MPPT voltage range (V)		
Start-up voltage (V)	140	
Max. PV input current per MPPT (A)	26/26	
Max. PV short-circuit current input per MPPT (A)	31/31	
Battery		
Compatible battery type	Lithium-ion/Lead-Acid	
Rated battery voltage (V)	48	
Battery voltage range (V)	40~60	
Max. charging/discharging current (A)	208	
Max. charging/discharging power (W)	10000	
Force wake up battery from PV function	YES	
AC Input/AC Output		
Rated AC voltage (V)	240 ; 208	
Rated AC frequency (Hz)	50/60	
Rated AC output power with PV (W)	13000@240V / 11200@208V	
Rated AC output current with PV (A)	54	
-	0.99 (Adjustable from 0.8 leading to 0.8 lagging)	
PF TUDI	7 3 30 3	
THDI	<3%	
Max. continuous AC passthrough current (A)	90	
GEN		
Rated GEN voltage (V)	240;208	
Rated GEN frequency (Hz)	50/60	
Rated GEN input current (A)	62.5	
Max. GEN input current (A)	80	
Rated GEN input power (W)	15000	
UPS		
Rated output power (W)	10000	
Rated output voltage (V)	240;120/240; 120/208	
Rated output current (A)	41.6@240V ; 48@208V	
Rated output frequency (Hz)	50/60	
Surge power, duration	2Pn, 0.5s	
Switching time	20ms	
Wave form	Sine wave	
THDV	<3%	
Efficiency		
-	00.00/	
Max. MPPT efficiency	99.9%	
Max. efficiency	97.5%	
Battery charge/discharge efficiency	94%	
CEC efficiency	96.6%	
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	
Rapid shut down	YES	
Grid/AFCI/RSD monitoring	YES	
Load breaker	80A	
Battery breaker	250A/80V	
General	Z3UA/0UV	
	F66*772*20Emm / 22 2*20 /*11 2 :-	
Dimensions (W*H*D)	566*773*285mm / 22.3*30.4*11.2 in	
Weight	55kg / 121.3 lbs	
Ingress protection rating	IP66/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 Cooling method	5/10 years	
Cooling method	Smart Cooling Transformer loss	
Topology Altitude	Transformer-less <2000m	

GEN-LB-US 16K

- 3 MPPTs with 5 strings input, Max. 21kW PV input
- 200A grid passthrough for whole home backup
- Supports up to 16pcs in parallel for on/off grid
- Peak shaving function
- Auto start/stop, works with battery and PV for load support.
- AC coupling function to retrofit the existing grid-tied system
- Remote Monitoring & Al Optimization



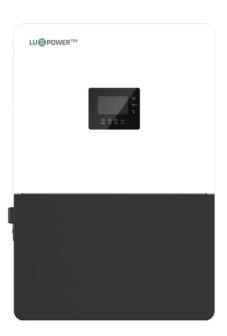


1odel	GEN-LB-US 16K
nput(PV DC)	
Max. PV array power (W)	25000
Max. PV input power (W)	21000
Rated PV input voltage (V)	360
Number of independent MPPT inputs	3/(2:2:1)
V input voltage range (V)	100~550
MPPT voltage range (V)	120~440
tart-up voltage (V)	140
Max. PV input current per MPPT (A)	26/26/15
Max. PV short-circuit current input per MPPT (A)	31/31/19
·	51/51/19
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
orce wake up battery from PV function	YES
AC Input/AC Output	
Rated AC voltage (V)	240 ; 208
Rated AC frequency (Hz)	50/60
1 3 1 1	50/60
Rated AC output power (W)	16000@240V / 13800@208V
Rated AC output current (A)	66.7
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)
'HDI	<3%
Max. continuous AC passthrough current (A)	200
GEN	
Rated GEN voltage (V)	240 ; 208
Rated GEN frequency (Hz)	50/60
	62.5
Rated GEN input current (A)	
Max. GEN input current (A)	80
Rated GEN input power (W)	15000
JPS	
Rated output power (W)	12000
Rated output voltage (V)	240 ;120/240 ; 120/208
Rated output current (A)	50@240V; 57.7@208V
Rated output frequency (Hz)	50/60
Surge power, duration	2Pn, 0.5s
Switching time	20ms
	Sine wave
Vave form	
THDV	<3%
Efficiency	
Max. MPPT efficiency	99.9%
1ax. efficiency	
	97.5%
Battery charge/discharge efficiency	94.0%
CEC efficiency	96.9%
Protection	
V reverse polarity protection	VEC
1 31	YES
Over current/voltage protection	YES
anti-islanding protection	YES
AC short-circuit protection	YES
eakage current protection	YES
OC switch	YES
AC/DC surge protection	Type III
Rapid shut down	YES
Grid/AFCI/RSD monitoring	YES
oad breaker	200A
Battery breaker	400A/80V
General	
Dimensions (W*H*D)	566*893*285mm / 22.3*35.2*11.2 in
Veight	57kg / 125.7 lbs
ngress protection rating	IP66/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
Varranty	5/10 years
	Smart Cooling
Cooling method	<u> </u>
Cooling method Copology	Transformer-less

09 /10

GEN-HB-US 25K (High Voltage)

- 120/240 split-phase output 25kW
- 6 MPPTs with 8 strings, Max. 48kW PV input
- Working with High Voltage Battery
- Whole House Backup with 200A Output
- Supports up to 6 units in Parallel
- Optimized for Small C&I and High Energy Demand Households





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Model	GEN-HB-US 25K
nput(PV DC)	
flax. PV input power (W)	48000
Rated PV input voltage (V)	360
lumber of independent MPPT inputs	6(A:2/B:2/C:1/D:1/E:1/F:1)
PV input voltage range (V)	120~600
MPPT voltage range (V)	120~480 120
Start-up voltage (V) Max. PV input current per MPPT (A)	34/34/17/17/17
Max. PV short-circuit current input per MPPT (A) Battery	50/50/30/30/30
Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage (V)	400
Battery voltage (V)	120~454.4
Max. charging/discharging current (A)	
Max. charging/discharging power (W)	
Force wake up battery from PV function	
Grid	YES
Rated AC voltage (V)	120/240, 120/208
Rated AC frequency (Hz)	60
· · ·	104
Rated AC output current (A) Rated AC output power (W)	·
	25000/21600
Max. AC intput current (W)	0.00 (Adjustable from 0.9 leading to 0.9 leaging)
	0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI	<5%
Max. continuous AC passthrough current (A)	104/Split bypass 200A
SEN Patrod CEN voltage AA	120/240 120/200
Rated GEN voltage (V)	120/240, 120/208 60
Rated GEN frequency (Hz)	
Rated GEN input current (A)	104
Rated GEN input power (W)	25000
EPS Output - with Battery	25000
Rated output power (W)	25000
Rated output voltage (V)	120/240, 120/208
Rated output current (A)	104
Rated output frequency (Hz)	60
Surge power, duration	2Pn/1s, 1.5Pn/30s
Switching time	<15ms
Nave form	Sine wave
THDV	<3%
Efficiency	
Max. MPPT efficiency	98.0%
Max. efficiency	94.0%
Battery charge/discharge efficiency	96.0%
Protection	
Anti-islanding Protection	YES
AC Short-circuit Protection	YES
eakage Current Protection	YES
Grid Monitoring	YES
PV DC Switch	YES
Grid/Load/Generator/Smart Load Breaker integrated	YES
Battery/PV reverse polarity protection	YES
Over Current/Voltage Protection	YES
PV Insulation Detection	YES
Battery Soft Start Protection	YES
SPD Protection	YES
FCI/RSD protection	YES
FCI FCI	YES
General	
Dimensions (W*H*D)	626*924*285 mm / 24.7*36.4*11.2 in
Veight	60kg / 132.28lbs
ngress protection rating	IP65/NEMA 4X
Display	LCD Transformant loss
Topology	Tranformer-less
Ambient Temperature Range Standby Losses	-25~60°C(>45°C, output derating) 10W Sleep Mode, 30W Standby Mode
Cooling	Smart Cooling
Relative Humidity Range	0~100%
Max. Operating Altitude	2000m
Noise	55dB
Communication from Inverter	SunSpec Modbus RTU over RS485, RJ45 for ext Wifi Dongle

TriP2-HB-US-3P 6-15K (Three-Phase)

- Max. 3 MPPTs and Max. PV input 22.5kW
- 150% unbalanced output, Max.7.5kW per phase
- Battery working range: 100~700V
- Max. 15kW UPS output
- 120/208V three-phase output
- Supports up to 10pcs in parallel for on/off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
- AC coupling function







Model	TriP2-HB-US-3P 6K	TriP2-HB-US-3P 8K	TriP2-HB-US-3P 10K	TriP2-HB-US-3P 12K	TriP2-HB-US-3
nput (PV DC)					
Max. PV input power (W)	9000	12000	15000	18000	22500
Rated PV input voltage (V)			690		
Number of independent MPPT inputs		2/(2:2)		3/(2	2:2:2)
Max. PV input voltage (V)			1000		
MPPT voltage range (V)			200~900		
Start-up voltage (V)			100		
Max. PV input current per MPPT (A)	20/2			40/40/40	
Max. PV short-circuit current input per MPPT	25/2	25		50/50/50	
Battery					
Compatible battery type			Lithium-ion/Lead-Acid		
Rated battery voltage (V)			400		
Battery voltage range (V)			100~800		
Max. charging voltage (V)			800		
Max. charging/discharging current (A)		50		7	75
Max. charging/discharging power (W)	6000	8000	10000	12000	15000
Force wake up battery from PV function			YES		
Grid					
Rated AC voltage (V)			3L/N/PE, 120/208Vac		
Rated AC frequency (Hz)			50/60		
Rated AC output current (A)	16.7	22.2	27.8	33.3	41.7
Rated AC output power (W)	6000	8000	10000	12000	15000
Max. AC intput current (A)	25.0	33.3	41.7	50.0	62.5
PF		0.99 (Adjusta	ble from 0.8 leading to	0.8 lagging)	
THDI			<3%		
Max. continuous AC passthrough current (A)			75		
GEN					
Rated GEN voltage (V)			3L/N/PE, 120/208Vac		
Rated GEN frequency (Hz)			50/60		
Rated GEN input current (A)			30		
Rated GEN input power (W)			20700		
JPS					
Rated output power (W)	6000	8000	10000	12000	15000
Rated output voltage (V)			3L/N/PE, 120/208Vac		
Rated output current (A)	16.7	22.2	27.8	33.3	41.7
Rated output frequency (Hz)	10.7	22.2	50/60	33.0	
Surge power, duration			1.5Pn, 10s		
Switching time			20ms		
Wave form			Sine wave		
THDV			<3%		
Efficiency			370		
Max. efficiency			97.4%		
Max. charge/discharge efficiency			97.2%		
Protection			37.270		
PV reverse polarity protection			YES		
Over current/voltage protection			YES		
Anti-islanding protection			YES		
AC Short-circuit protection			YES		
Leakage current protection			YES		
Grid monitoring			YES		
OC switch			YES		
ngress protection			YES		
·			Type III		
OC Surge protection					
AC Surge protection			Type III		
General		400/=-	2+250	40.2 i=	
Dimensions (W*H*D)			3*258mm / 18.9*27.7*		11000
Veight		TBD	ID.CC	50kg / 1	110.2lbs
ngress protection rating			IP66		
Operating environment temperature range (°C)			-25~60		
storage temperature range (°C)			-40~70		
Relative humidity			0~100%		
Display & Communication interface		Touch	color screen, RS485/Wi	fi/CAN	
Varranty			5/10 years		
Cooling method		Natural cooling		Smart	cooling
			Transformer-less		
Гороlоду					
opology .ltitude(m)			<2000		

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TriP2-LB-US-3P 5-10K (Three-Phase)

- Supports independent grid export control for each phase
- Max. 3 MPPTs, Max. PV input: 15kW
- Compatible with 48V low-voltage battery systems
- 120/208V three-phase output
- Time of use, 8 time periods for charging & discharging
- Max. 10 pcs parallel for on grid &off grid
- Dedicated GEN port for
- Auto GEN control
- Smart load function
- AC coupling function







	Model	TriP2-LB-US-3P 5K	TriP2-LB-US-3P 6K	TriP2-LB-US-3P 8K	TriP2-LB-US-3P 10K	
Max. PV Imput (power (W) 7500 900 12000 15000						
Read Project voltage (v) 690		7500	9000	12000	15000	
Number of Independent MPFT inputs SIT1-11 Max. PV Input to Ureating Principles 1000 MPFT Inputs (unreating particles of the product						
Max. IV input voltage (V)						
MPFT voltage range (V)						
Start-up voltage (V)	-					
Max. PV short Cruze to general per MPPT (A) 20/20						
Max. Pt short-circuit current injust per MPPT Selective Compatible battery type Compatible battery Com						
Battery voltage range (V)						
Compatible battery type			200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Battery voltage range (V)			Lithium-io	n/l ead-Acid		
Max. charging/discharging current (A) 125 150 200 220 Max. charging/discharging power (W) 5000 5000 5000 5000 Charging Stratesy for Li-ion Battery 10000 10000 Input AC (Grid) 10000 10000 10000 Max. AC Input current 17.4 20.8 27.8 34.7 Output AC (Grid) 10000 12500 Max. AC Input current 17.4 20.8 27.8 34.7 Output AC (Grid) 10000 12500 Max. AC Input current 17.4 20.8 27.8 34.7 Output AC (Grid) 10000 12500 Max. AC Input current 17.4 20.8 27.8 34.7 Output AC (Grid) 10000 10000 12500 Max. AC Input current (A) 30.9 50.9 Max. Carrent (A) 10.9 16.7 22.2 27.8 Max. Carrent (A) 10.9 16.7 22.2 27.8 Max. Carrent (A) 30 10.0 10000 10000 Max. Carrent (A) 30 50.9 50.9 Max. Carrent (A) 30 50.9 50.9 Max. Carrent (A) 30 10000 10000 10000 10000 Max. Carrent (A) 30 10000						
Max. charging/discharging gower (W)		125			220	
Charging Strategy for Li-ion Battery			6000	8000		
Input Ac (Grid) Input Voltage range 3UN/PE, 120/208Vac Sarded AC frequency (H+) So/60 T50/60 T50/			Self-adap	tion to BMS		
Input voltage range						
Name of Act Prequency (Hz)			3L/N/PE.	120/208Vac		
Max. AC input power (W) Max. AC input current 17.4 20.8 34.7 Output AC (Grid) Rated AC voltage (V) Rated AC voltage (V) Rated AC voltage (V) Rated AC coutput current (A) Society Ference (AC voltage (V) Rated AC voltage (V) Rated AC voltage (V) Society Rated AC voltage (V) Rated AC voltage (V) Society Rated AC voltage (V) Rated (AC voltage (V) Rated (AC voltage (V) Rated (AC voltage (V) Rated (AC voltage (V) Rated (SN Frequency (Hz) Society Society Rated (SN Frequency (Hz) Society Society Rated (SN Frequency (Hz) Society						
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Surpose Surpose Survey						
Rated A Voltage (V)	·					
Rated A frequency (Hz)	-		31 /N/PF	120/208Vac		
Rated AC output power (W) S000 6000 8000 10000 10000 13.9 16.7 2.2 27.8 27.8 FF						
Rated Acoupts current (A) 13.9 16.7 2.2 27.8		5000			10000	
PF			16.7	22.2		
THDI			0.99(Adiustable from 0			
Max. continuous AC passthrough current (A) GEN Rated GEN voltage (V) Rated GEN frequency (Hz) Rated GEN input current (A) Rated GEN input power (W) Suppose the properties of the propert						
Rated GEN roltage (V) 3L/N/PE, 120/208Vac Rated GEN requency (Hz) 50/60 Rated GEN input current (A) 30 Rated GEN input current (A) 20700 UPS Rated GEN input power (W) 20700 UPS Rated GEN input power (W) 20700 UPS U						
Rated GEN voltage (V) SU/NPE, 120/208Vac So/60 Rated GEN frequency (Hz) So/60 So/60 Rated GEN input current (A) 30 So/60 S						
Rated GRM Frequency (Hz)			3L/N/PE.	120/208Vac		
Rated GEN Input courrent (A) 2070						
Rated output power (W)						
UPS Rated output power (W) 5000 6000 8000 10000 Rated output voltage (V) 3L/N/PE, 120/208Vac 2.2.2 27.8 Rated output current (A) 13.9 16.7 22.2 27.8 Rated output frequency (Hz) 50/60 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>						
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Rated output current (A) 13.9 16.7 22.2 27.8						
Rated output frequency (Hz) 50/60 Surge power, duration 1.5Pn, 10s Switching time 20ms Wave form Sine wave THDV 3% Fiftiency Max. efficiency 97.70% Max. charge/discharge efficiency 94.0% Protection PV reverse polarity protection YES Over current/voltage protection YES AC Short-circuit protection YES AC Short-circuit protection YES Grid monitoring YES DC switch YES Ingress protection YES DC Switch YES DC Surge protection YES DC Surge protection Type III AC Surge protection Type III General Tipe III Dimensions(W+H*D) 480*703*258mm / 18.9*27.7*10.2 in Weight TBD Ingress protection rating IP66 Operating environment temperature range(°C) -25-+60. *45°C derating		13.9			27.8	
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Switching time 20ms Wave form Sine wave THDV <3% Efficiency Max. efficiency 97.70% Max. charge/discharge efficiency 94.0% Protection PV reverse polarity protection Over current/voltage protection YES Act Short-circuit protection YES AC Short-circuit protection YES Leakage current protection YES DC Switch YES Dr Switch YES DC Switch YES DC Switch YES DC Switch YES DC Surge protection Type III AC Surge protection Type III General Tippe III Dimensions(M*H**D) 480*703*258mm / 18.9*27.7*10.2 in Weight TBD Ingress protection rating IP66 Operating environment temperature range(°C) -25+60, >45°C derating Storage temperature range(°C) -25+60 Relative humidity 0-100%						
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Cooling methodSmart coolingTopologyTransformer-lessAltitude(m)<2000						
Topology Transformer-less Altitude(m) <2000 Noise emission(typical) <50dB	-					
Altitude(m) <2000 Noise emission(typical) <50dB						
Noise emission(typical) <50dB						
			\ <u>\</u>	- COLD		



The ultimate pick for off-grid applications, empowering energy independence. seamlessly switching between on and off-grid modes, it's tailored for remote regions and unstable power scenarios, enabling direct off-grid usage.

OUR CORE FEATURES

16pcs Parallel

With 16 units designed for parallel connections, this solution offers enhanced efficiency and flexibility for your power conversion needs. Whether you're integrating solar panels, batteries, or other renewable energysources, "16pcs Parallel" ensures seamless operation and optimized performance. Whether you're a professional or a DIY enthusiast, this product will beyour ideal choice.

Three-phase system with variable loads on each phase

Introducing our parallelized three-phase system, where each phase may have adifferent load. This state-of-the-art solution offers unmatched flexibility and efficiency for power distribution across diverse environments. Whether you're overseeing industrial machinery, commercial facilities, or residential grids, oursystem seamlessly adapts to varying loads on each phase. With robust performance and precise load management capabilities, it's perfect for optimizing energy usage and ensuring a dependable power supply.

Separate Generator Port Available

This addition expands the diversity of energy independence options by providing additional flexibility in power source selection, Whether you're incorporatingsolar panels, batteries, or generators, our system offers seamless integrationand optimized performance. With its adaptable design and expanded options, it's the ideal solution for diversifying energy sources and ensuring reliable power supply in various scenarios.

480V High Voltage PV Input

With this capability, our system allows for the integration of as many solarpanels as possible, optimizing energy generation potential. Whether forresidential, commercial, or industrial applications, this feature ensures efficient utilization of solar resources and enhanced energy output. Say goodbye to limitations and hello to unparalleled solar power flexibility with our high PV voltage input.

SNA US 3K

- 120V off-grid output
- Supports up to 16 units in parallel
- Maximum PV input voltage: 500V
- 2 MPPTs, maximum PV input: 8kW
- Maximum charge and discharge current: 70A
- Dedicated generator port
 AC coupling or intelligent charge management





Model SNA US 3K Input(PV DC) Max. PV input power (W) 8000(4000/4000) Rated PV input voltage (V) 320 Number of independent MPPT inputs 2/(1:1) PV input voltage range (V) 100~500 MPPT voltage range (V) 120~385 Start-up voltage (V) 100 Max. PV input current per MPPT (A) 17/17 Max. PV short-circuit current input per MPPT (A) 25/25 Battery	
Max. PV input power (W) 8000(4000/4000) Rated PV input voltage (V) 320 Number of independent MPPT inputs 2/(1:1) PV input voltage range (V) 100~500 MPPT voltage range (V) 120~385 Start-up voltage (V) 100 Max. PV input current per MPPT (A) 17/17 Max. PV short-circuit current input per MPPT (A) 25/25	
Rated PV input voltage (V) Number of independent MPPT inputs 2/(1:1) PV input voltage range (V) MPPT voltage range (V) 120~385 Start-up voltage (V) 100 Max. PV input current per MPPT (A) Max. PV short-circuit current input per MPPT (A) 25/25	
Number of independent MPPT inputs PV input voltage range (V) MPPT voltage range (V) Start-up voltage (V) Max. PV input current per MPPT (A) Max. PV short-circuit current input per MPPT (A) 2/(1:1) 100~500 120~385 100 17/17 25/25	
PV input voltage range (V) MPPT voltage range (V) Start-up voltage (V) Max. PV input current per MPPT (A) Max. PV short-circuit current input per MPPT (A) 100 17/17 25/25	
MPPT voltage range (V) Start-up voltage (V) Max. PV input current per MPPT (A) Max. PV short-circuit current input per MPPT (A) 25/25	
Start-up voltage (V) 100 Max. PV input current per MPPT (A) 17/17 Max. PV short-circuit current input per MPPT (A) 25/25	
Max. PV input current per MPPT (A) 17/17 Max. PV short-circuit current input per MPPT (A) 25/25	
Max. PV short-circuit current input per MPPT (A) 25/25	
Compatible battery type Lithium-ion/Lead-Acid	
Rated battery voltage (V) 48	
Battery voltage range (V) 38.4~60	
Max. charging/discharging current (A) 70	
Max. charging/discharging power (W) 3000	
Force wake up battery from PV function YES	
Force wake up battery from Grid function YES	
Gird	
Rated AC voltage(V) 120	
Rated AC frequency (Hz) 50/60	
Max. AC intput current (A) 40	
Max. AC intput power (W) 4500	
Max. continuous AC passthrough current (A) 60	
GEN	
Rated GEN voltage (V) 120	
Rated GEN frequency (Hz) 50/60	
Rated GEN input current (A) 32	
Rated GEN input power (W) 3840	
UPS	
Rated output power (W) 3000	
Rated output voltage (V) 120	
Rated output current (A) 25	
Rated output frequency (Hz) 50/60	
Surge power, duration 2Pn, <2s	
Switching time <10ms@Single/<20ms@Parallel	
Wave form Sine wave	
THDV <3%	
Efficiency	
Max. MPPT efficiency 99.9%	
Max. efficiency 93.0%	
Max. charge/discharge efficiency 93.0%	
Protection	
Over current/voltage protection YES	
AC short-circuit current protection YES	
Grid monitoring YES	
AC Surge protection Type III	
Battery reverse polarity protection YES	
DC switch YES	
PV Arc Fault Detection YES	
General	
Dimensions (W*H*D) 330*505*135mm / 13*19.9*5.3 in	
Weight 14.5kg/31.97lbs	
Ingress protection rating IP20	
Operating environment temperature range (°C) Charges temperature range (°C) 15 CO	
Storage temperature range (°C) -15~60	
Relative humidity 5%~95% Display & Communication interface.	
Display & Communication interface LCD+LED, RS485/Wi-Fi/CAN Warranty 2 years	
Cooling method Smart Cooling	
Topology Transformer-less	
Altitude < 2000m	

Noise emission(typical) <50dB	

SNA US 6K

- 240V/120V off-grid split-phase output
- Supports up to 16pcs in parallel
- Off-grid seamless switching
- AFCI protection integrated
- Dedicated port for generator, AC coupling or smart load management
- Breakers (Grid, Load, Gen and Battery) and PV switch are integrated





21/22

Model	SNA US 6K
nput(PV DC)	0000(4000(4000)
Max. PV input power (W)	8000(4000/4000)
Rated PV input voltage (V)	320
lumber of independent MPPT inputs	2/(1:1)
V input voltage range (V)	100~500
MPPT voltage range (V)	120~385
tart-up voltage (V)	100
Max. PV input current per MPPT (A)	17/17
Max. PV short-circuit current input per MPPT (A)	25/25
Battery	
Compatible battery type	Lithium-ion/Lead-Acid
Rated battery voltage (V)	48
Battery voltage range (V)	38.4~60
Max. charging/discharging current (A)	125/140
Max. charging/discharging power (W)	6000
orce wake up battery from PV function	YES
orce wake up battery from Grid function	YES
iird	
ated AC voltage(V)	110(L-N)/220(L1-L2); 120(L-N)/240(L1-L2)
ated AC frequency (Hz)	50/60
Max. AC intput current (A)	41A@220V/37.5A@240V
Max. AC intput current (A)	9000
Max. AC Intput power (W) Max. continuous AC passthrough current (A)	50
GEN	100/010
Rated GEN voltage (V)	120/240
Rated GEN frequency (Hz)	50/60
Rated GEN input current (A)	32
Rated GEN input power (W)	7370
IPS	
Rated output power (W)	6000
Rated output voltage (V)	110/220; 120/240
Rated output current (A)	28A@220V/25A@240V
Rated output frequency (Hz)	50/60
Surge power, duration	2Pn, <2s
Switching time	<7ms@Single/<20ms@Parallel
Vave form	Sine wave
THDV	<3%
Efficiency	\ 370
Max. MPPT efficiency	99.9%
Max. efficiency	93.0%
Max. charge/discharge efficiency	
Protection	93.0%
	YES
Over current/voltage protection	
AC short-circuit current protection	YES
Grid monitoring	YES
AC Surge protection	Type III
Battery reverse polarity protection	YES
OC switch	YES
Rapid shut down	YES
V Arc Fault Detection	YES
C & UPS breaker (Current/Voltage)	50A/230VAC
Battery breaker (Current/Voltage)	200A/80V/DC
GEN breaker (Current/Voltage)	50A/230V/AC
ieneral	3001230VIAC
Dimensions (W*H*D)	450*650*150mm / 17.7*25.6*5.9 in
Veight	
	24kg / 53lbs
ngress protection rating	IP20
Operating environment temperature range (°C)	0~50
itorage temperature range (°C)	-15~60
Relative humidity	5%~95%
Display & Communication interface	LCD+LED, RS485/Wi-Fi/CAN
Varranty	2 years
Cooling method	Smart Cooling
Topology	Transformer-less
Altitude	<2000m
Noise emission(typical)	<50dB

ECO HYBRID

SNA US 12-15K

- 240/120V off-grid split-phase output
- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- AFCI Protection Integrated
- Dual AC output ports for multiple load connections
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery
- AC/Generator (input 240V or 120V) charge function
- Supports up to 16 units in parallel
- Separate GEN port
- -Up to 19.2kW Gen/AC coupling input
- -Auto generator start and stop control





odel	SNA US 12K SNA US 15K		
PUT (PV DC)			
ax. PV input power (W)	24000 (12000/12000)		
ated PV input voltage (V)	320		
umber of independent MPPT inputs	2/(2:2)		
/ input voltage range (V)	100-480		
PPT voltage range (V)	120-440		
art-up voltage (V)	100		
ax. PV input current per MPPT (A)	35/35		
ax. PV short-circuit current input per MPPT (A)	44/44		
ttery			
mpatible battery type	Lithium-ion/Lead-Acid		
ted battery voltage (V)	48/51.2		
ttery voltage range (V)	46.4~60/38.4~60		
ax. charging / discharging current (A)	250		
x. charging / discharging power (W)	12000		
rce wake up battery from PV and Grid function	YES		
id			
ted AC voltage (V)	120/240; 120/208		
Start-up Voltage	90 (L-L)		
ceptable Input Voltage Range (V)	130~280 (L-L)		
ted AC frequency (Hz)	60/50		
ted AC input current (A)	100A@240V		
ted AC input power (W)	24000		
	0.99		
DI	<5%		
xx. continuous AC passthrough current(A)	100		
N	100/040 100/000		
ted GEN voltage (V)	120/240; 120/208		
ted GEN frequency (Hz)	60/50		
ted GEN input current (A)	62.5		
ted GEN input power (W)	15000		
ted GEN current of BYPASS relays (A)	90		
S and a second	12000 0240\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
ted output power (W)	12000 15000@240V(with PV + Battery)		
ted output voltage (V)	120/240; 120/208		
ted output current (A)	50@240V 62.5@240V		
ted output frequency (Hz)	50/60		
rge power, duration	2Pn, 5s		
itching time (UPS)	<10ms		
ave form	Sine wave		
DV	<3%		
rerload protection	5s@≥150% load /10s@110%~150% load		
ficiency ax, efficiency	0.3 E04		
,	93.5%		
ax. charging / discharging efficiency	93.0%		
ix. MPPT efficiency	99.0%		
	VEC		
reverse polarity protection(Y/N)	YES		
er current / voltage protection(Y/N)	YES		
Short-circuit current protection(Y/N)	YES		
d monitoring(Y/N)	YES		
switch(Y/N)	YES		
Surge protection	Type III		
Surge protection	Type III		
ttery reverse polarity protection (Y/N)	YES		
D / AFCI monitoring (Y/N)	YES YES		
S/Battery breakers integrated	IED		
neral	530*830*150mm / 17.72*25.59*5.9 in		
nensions (W*H*D mm)			
right races protection rating	47.5kg / 104.72lbs IP20		
ress protection rating	0~45		
perating environment temperature range(°C)			
orage temperature range(°C)	-15~60		
ative humidity	5% ~ 95%		
splay & Communication interface	LCD+RGB, RS485 / Wifi / CAN		
	2 years		
arranty	•		
oling method	Smart cooling		
oling method pology on AC / Battery side	Smart cooling Transformer-less / Transformer		
oling method	Smart cooling		

Smart Energy Integration Hub

PowerHub

Key Features:

• Centralized Control:

PowerHub acts as the central controller for all home power sources, efficiently integrating the grid, existing grid-tied systems, generators, and directly connecting to various types of loads to supply uninterrupted electricity to your home.

• Seamless Transition:

Automatically transitions your home's power supply from grid power to backup power, ensuring that essential appliances like refrigerators and network routers remain unaffected during grid outages.

• Flexible Connections:

With four independent smart ports, PowerHub offers versatile connectivity options for integrating with existing systems or directly powering loads.

• Enhanced Reliability:

By managing and optimizing multiple power sources, PowerHub enhances the reliability and stability of your home's energy supply.

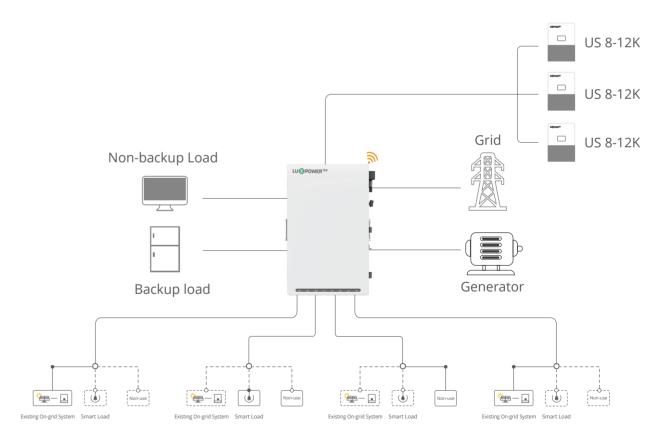




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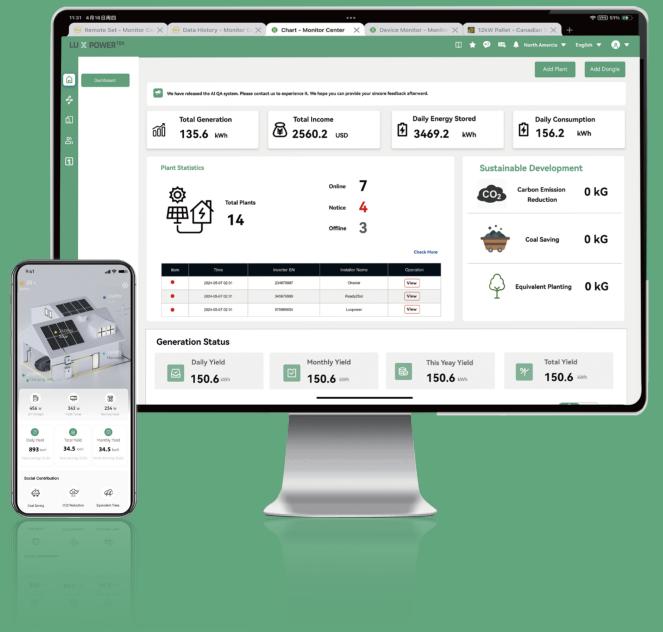
Performance specifications	Po	werHub	
Doub Nove o	Post Otr	Max. Current	
Port Name	Port Qty		
For Hybrid Inverter	3	70	
		125	
F. C. C. and A. and		80	
For Smart port	4	60	
		60	
For backup load	1	200	
For Non-backup load	1	200	
For Generator	1	125	
For Grid	1	200	
General Data			
Operating Ambient Temperature Range	-40°C to 60	0°C -40°F to 140°F	
Max. Operating Altitude	2000 m(6561 ft)		
Relative Humidity	0 ~ 100%		
Outdoor Rating	NEMA 4X		
Dimensions	500*800*178mm / 19.7*31.5*7 in		
Weight	25kg / 55 lbs		
Mounting	Wall-mounted		

UL1741,UL869A,UL916,FCC Part15B



LUXPOWERTEK MONITORING CLOUD

Redefining energy management efficiency through AI empowerment



LuxBot Intelligent Customer Service

- 24/7 real-time multilingual support;
- Resolves user inquiries rapidly through Natural Language Processing (NLP), offering device diagnostics, energy consumption analysis, and operational guidance.

Al-Adaptive Operation Modes

- Intelligent Charging/Discharging Strategy: Dynamically optimizes cycles based on load forecasting and battery health monitoring to extend the lifespan of energy storage systems;
- Weather Optimization Algorithm: Integrates real-time meteorological data to automatically adjust energy dispatch (e.g., solar-storage coordination), ensuring system stability during extreme weather conditions.

For APP Download





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