

# YOUR RELIABLE ENERGY SOLUTION PARTNER









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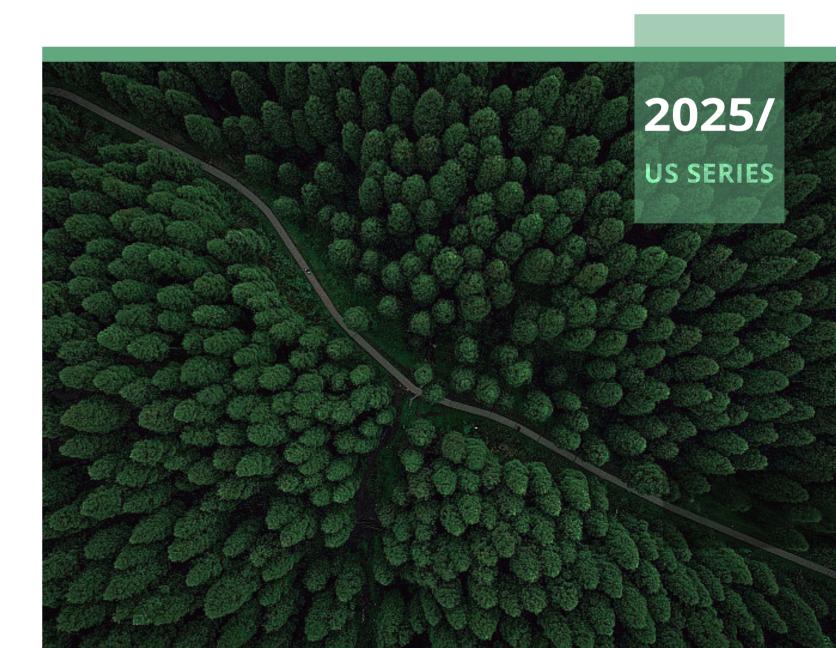
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# **MARKET LAYOUT**







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 P03



LXP-LB-US 12K

P05

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GEN-LB-US 13K P07



GEN-LB-US 16K

P09

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GEN-HB-US 25K P11

### • THREE-PHASE



TriP2-LB-US 5-10K P13



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

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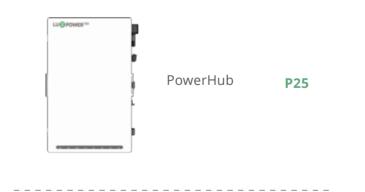
# **CATALOGUE**

# **OFF-GRID**





# **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 capacity for expanded solar coverage
- Fast charge & discharge performance for optimized energy use
- Compact, lightweight design for easy installation
- Real-time monitoring on LuxCloud (mobile & PC)
- Generator-ready for flexible backup power options
- Wide compatibility with leading battery brands and smart home systems



# **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)			
Max. PV input power (W)	8000	12000	15000
Rated PV input voltage (V)		360	
Number of independent MPPT inputs		2 / (2:2)	
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 / 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)		40 ~ 60	
Max. charging / discharging current (A)	115	167	210
Max. charging / discharging power (W)	5000	8000	10000
Force wake up battery from PV function	3000	YES	10000
Grid		TES	
Rated AC voltage(V)		120 / 240; 120 / 208	
-			
Rated AC frequency (Hz)	20.04.62.40.1.1.244.0220.1	50 / 60	41 (40240)//4040200
Rated AC output current	20.8A@240V / 24A@208V	33.3A@240V / 38.5A@208V	41.6A@240V / 48A@208V
Rated AC output power (W)	5000	8000	10000
Max. AC intput curren (A)	40	63	63
PF	0.99	(Adjustable from 0.8 leading to 0.8 lag	gging)
THDI		3%	
JPS			
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)		50 / 60	
Surge power, duration		2 × rated power for 0.5s	
Switching time		20ms	
Vave form		Sine wave	
THDV		< 3%	
GEN		<b>\</b> 5%	
Rated GEN voltage (V)		120 / 240: 120 / 200	
0 11		120 / 240; 120 / 208	
Rated GEN frequency (Hz)		50 / 60	
Rated GEN input current (A)	41.7		62.5
Rated GEN input power (W)	10000		15000
Efficiency			
Max. MPPT efficiency		99.9%	
Max. efficiency		97.5%	
Battery charge/discharge efficiency		94.0%	
CEC efficiency		96.4%	
Protection			
PV reverse polarity protection		YES	
Over current/voltage protection		YES	
Anti-islanding protection		YES	
WIND CHANGE OF CITCHION		I EO	
01		VEC	
AC short-circuit protection		YES	
AC short-circuit protection  Leakage current protecion		YES	
AC short-circuit protection  Leakage current protecion  DC switch		YES YES	
AC short-circuit protection Leakage current protecion DC switch		YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection		YES YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection  Rapid shut down		YES YES YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring		YES YES YES YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)		YES YES YES YES YES YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)		YES YES YES YES YES YES AND YES AND YES AND YES	
AC short-circuit protection  Leakage current protecion  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)		YES YES YES YES YES YES 63A / 480V 63A / 480V	
AC short-circuit protection  Ac short-circuit protection  Ac short-circuit protection  Co switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  General	52	YES YES YES YES YES YES 63A / 480V 63A / 480V 250A / 80V	: in
AC short-circuit protection  Ac short-circuit protection  Ac short-circuit protection  Co switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  General  Dimensions (W × H × D)	52	YES YES YES YES YES YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2	: in
AC short-circuit protection  Ac short-circuit protection  Ac short-circuit protection  Co switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  General  Dimensions (W × H × D)  Weight	52	YES YES YES YES YES YES 63A / 480V 63A / 480V 250A / 80V	: in
AC short-circuit protection  Leakage current protection  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  General  Dimensions (W × H × D)  Weight  Ingress protection rating	52	YES YES YES YES YES YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs	: in
AC short-circuit protection Leakage current protecion DC switch AC/DC surge protection Rapid shut down Grid / AFCI / RSD monitoring Grid / GEN breaker (Current / Voltage) Load breaker (Current / Voltage) Battery breaker (Current/Voltage) General Dimensions (W × H × D) Weight Ingress protection rating Relative humidity	52	YES YES YES YES YES YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X	: in
AC short-circuit protection  Leakage current protection  CC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  General  Dimensions (W × H × D)  Weight  Ingress protection rating  Relative humidity  Deprating environment temperature range (°C)  Storage temperature range (°C)	52	YES YES YES YES YES YES  YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X 0 ~ 100%	: in
AC short-circuit protection Leakage current protection DC switch AC/DC surge protection Rapid shut down Grid / AFCI / RSD monitoring Grid / GEN breaker (Current / Voltage) Load breaker (Current / Voltage) Battery breaker (Current/Voltage) Bettery breaker (Current/Voltage) Weight Dimensions (W × H × D) Weight Ingress protection rating Relative humidity Departing environment temperature range (°C) Display & Communication interface		YES YES YES YES YES YES  YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X 0 ~ 100% -25 ~ 60°C, > 45°C Derating -25 ~ 60  Touch color screen, RS485 / Wi-Fi / CA	
AC short-circuit protection Leakage current protection DC switch AC/DC surge protection Rapid shut down Grid / AFCI / RSD monitoring Grid / GEN breaker (Current / Voltage) Load breaker (Current / Voltage) Battery breaker (Current/Voltage) Bettery breaker (Current/Voltage) Weight Dimensions (W × H × D) Weight Ingress protection rating Relative humidity Deparating environment temperature range (°C) Storage temperature range (°C) Display & Communication interface Warranty		YES YES YES YES YES YES  YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X 0 ~ 100% -25 ~ 60°C, > 45°C Derating -25 ~ 60  Touch color screen, RS485 / Wi-Fi / CA 5 / 10 years	
AC short-circuit protection Leakage current protection DC switch AC/DC surge protection Rapid shut down Grid / AFCI / RSD monitoring Grid / GEN breaker (Current / Voltage) Load breaker (Current / Voltage) Battery breaker (Current/Voltage) Bettery breaker (Current/Voltage) Weight Dimensions (W × H × D) Weight Ingress protection rating Relative humidity Deparating environment temperature range (°C) Storage temperature range (°C) Display & Communication interface Warranty Cooling method		YES YES YES YES YES YES  YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X 0 ~ 100% -25 ~ 60°C, > 45°C Derating -25 ~ 60  Touch color screen, RS485 / Wi-Fi / CA 5 / 10 years Smart Cooling	
AC short-circuit protection  Leakage current protection  DC switch  AC/DC surge protection  Rapid shut down  Grid / AFCI / RSD monitoring  Grid / GEN breaker (Current / Voltage)  Load breaker (Current / Voltage)  Battery breaker (Current/Voltage)  Battery breaker (Current/Voltage)  Weight  Ingress protection rating  Relative humidity  Operating environment temperature range (°C)  Display & Communication interface  Warranty  Cooling method  Topology  Max. Operating Altitude (m)		YES YES YES YES YES YES  YES 63A / 480V 63A / 480V 250A / 80V  0 × 750 × 285 mm / 20.5 × 29.5 × 11.2 50 kg / 110 lbs IP65 / NEMA 4X 0 ~ 100% -25 ~ 60°C, > 45°C Derating -25 ~ 60  Touch color screen, RS485 / Wi-Fi / CA 5 / 10 years	

# **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





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Model	LXP-LB-US 12K	LXP-LB-US Pro 10K	
Input (PV DC)		200	
Max. PV input power (W)		000	
Rated PV input voltage (V)	360		
Number of independent MPPT inputs	3 / (2:1:1)		
Max. PV input voltage (V)	6	00	
MPPT voltage range (V)	120 ~ 500		
Start-up voltage (V)	14	40	
Max. PV input current per MPPT (A)	25 / 1	5 / 15	
Max. PV short-circuit current input per MPPT (A)	31 / 1	9 / 19	
Battery	3.7.	3.13	
Compatible battery type	Lithium-ion	/ Lead-Acid	
Rated battery voltage (V)		18	
Battery voltage range (V)		~ 60	
Max. charging / discharging current (A)	250	208	
Max. charging / discharging power (W)	12000	10000	
Force wake up battery from PV function	Y	ES	
Grid			
Rated AC voltage (V)	120 / 240;	120 / 208	
Rated AC frequency (Hz)	50	/ 60	
Rated AC output current (A)	50	41.7	
Rated AC output power (W)	12000	10000	
Max. AC intput curren (A)		00	
PF TUDE		.8 leading to 0.8 lagging)	
THDI		3%	
Max. continuous AC passthrough current (A)	20	00	
GEN			
Rated GEN voltage (V)	120 / 240;	: 120 / 208	
Rated GEN frequency (Hz)	50	/ 60	
Rated GEN input current (A)		2.5	
Rated GEN input power (W)	151	000	
UPS			
Rated output power (W)	12000	10000	
Rated output voltage (V)	120 / 240;	120 / 208	
Rated output current (A)	50	41.7	
Rated output frequency (Hz)	50 / 60	50 / 60	
Surge power, duration	2 × rated po	ower for 0.5s	
Switching time	· · · · · · · · · · · · · · · · · · ·		
Wave form	20ms Sine wave		
THDV	< 3%		
		3%	
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	V	ES	
Over current / voltage protection		ES	
Anti-islanding protection		ES	
AC short-circuit protection		ES	
Leakage current protecion	Y	ES	
DC switch	Y	ES	
AC/DC surge protection	Тур	e III	
Rapid shut down		ES	
Grid/AFCI/RSD monitoring		ES	
Load breaker (Current)		0A	
Battery breaker (Current/Voltage)			
-	2*200	)A/80V	
General	500 575 575	120 5 24.2 44.2	
Dimensions (W × H × D)		/ 20.5 × 34.2 × 11.2 in	
Weight		121.2 lbs	
Ingress protection rating	IP65 / NEMA 4X	NEMA 4X	
Relative humidity		100%	
Operating environment temperature range (°C)		45°C Derating	
Storage temperature range (°C)		~ 60	
Display & Communication interface		, RS485 / Wi-Fi / CAN	
Warranty Cooling method		years	
Cooling method	Smart	Cooling	
	Transformerless		
Topology Max. Operating Altitude (m)		rmerless 100	

# **GEN-LB-US 13K**

- 2 MPPTs with 4 strings input, Max. 18kW 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





Input (PV DC) Max. PV array power (W) Max. PV input power (W) 18000 Rated PV input voltage (V) 360 Number of independent MPPT inputs 2 / (2:2) Max. PV input voltage (V) 550 MPPT voltage range (V) 120 ~ 440 Start-up voltage (V) 140 Max. PV input current per MPPT (A) 26 / 26 31 / 31 Max. PV short-circuit current input per MPPT (A) Battery Lithium-ion / Lead-Acid Compatible battery type Rated battery voltage (V) 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 Grid 120 / 240 ; 120 / 208 Rated AC voltage (V) Rated AC frequency (Hz) 50 / 60 Rated AC output current with PV (A) Rated AC output power with PV (W) 13000@240V / 11200@208V Max. AC input current (A) 63 THDI <3% Max. continuous AC passthrough current (A) 90 GEN Rated GEN voltage (V) 120 / 240 ; 120 / 208 Rated GEN frequency (Hz) 50 / 60 Rated GEN input current (A) 62.5 Max. GEN input current (A) 80 15000 Rated GEN input power (W) UPS Rated output power (W) 10000 120 / 240 ; 120 / 208 Rated output voltage (V) Rated output current (A) 41.6@240V; 48@208V Rated output frequency (Hz) 50 / 60 Surge power, duration 2 × rated power for 0.5s 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 96.6% 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 80A Load breaker Battery breaker 250A / 80V General 566 × 773 × 285 mm / 22.3 × 30.4 × 11.2 in Dimensions (W  $\times$  H  $\times$  D) Weight 55 kg / 121.3 lbs Ingress protection rating IP66 / NEMA 4X Relative humidity 0 ~ 100% -25 ~ 60°C, > 45°C Derating Operating environment temperature range (°C) 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 Transformerless Max. Operating Altitude (m) 2000 Standards & Certification

GEN-LB-US 13k

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

# **GEN-LB-US 16K**

- 3 MPPTs with 5 strings input, Max. 21kW PV input
- 200A grid passthrough for whole home backup
- 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

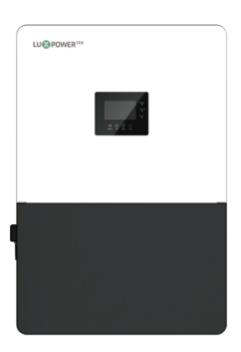




Model	GEN-LB-US 16K
Input (PV DC)	
Max. PV array power (W)	25000
Max. PV input power (W)	21000
Rated PV input voltage (V)	360
Number of independent MPPT inputs  Max. PV input voltage (V)	3 / (2:2:1) 550
MPPT voltage range (V)	120 ~ 440
Start-up voltage (V)	140
Max. PV input current per MPPT (A)	26 / 26 / 15
Max. PV short-circuit current input per MPPT (A)	31 / 31 / 19
Battery	
Compatible battery type	Lithium-ion / Lead-Acid
Rated battery voltage (V)	48
Battery voltage range (V)  Max. charging / discharging current (A)	40~60
Max. charging / discharging power (W)	
Force wake up battery from PV function	YES
Grid	125
Rated AC voltage (V)	120 / 240 ; 120 / 208
Rated AC frequency (Hz)	50 / 60
Rated AC output current with PV (A)	66.7
Rated AC output power with PV (W)	16000@240V / 13800@208V
Max. AC intput current (A)	200
THDI	<3%
Max. continuous AC passthrough current (A)	200
GEN Rated GEN voltage (V)	120 / 240 ; 120 / 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)	12000
Rated output voltage (V)	120 / 240 ; 120 / 208
Rated output current (A)	50@240V ; 57.7@208V
Rated output frequency (Hz) Surge power, duration	50 / 60 2 × rated power for 0.5s
Switching time	2 ^ Tated power for 0.35
Wave form	Sine wave
THDV	< 3%
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
AC / DC surge protection	Type III
Rapid shut down	YES
Grid / AFCI / RSD monitoring	YES
Load breaker	200A
Battery breaker	400A / 80V
General	FCC v 002 ·· 205 /22 2 ·· 25 2 ·· 44 2 '
Dimensions (W × H × D)  Weight	566 × 893 × 285 mm / 22.3 × 35.2 × 11.2 in 57 kg / 125.7 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) Display & Communication interface	-25 ~ 60 Touch color screen, RS485 / Wi-Fi / CAN
Warranty	5 / 10 years
Cooling method	Smart Cooling
Topology	Transformerless
Max. Operating Altitude (m)  Standards & Certification	2000
UL 1741SA, UL 1741SB, CSA C22.2, CEC, FCC Part15B, IEE	EE 1547.1, HECO SRD V2.0

# 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





Max. PV short-circuit current input per MPPT (A) 50 / 50 / 30 / 30 / 30 / 30 Battery Lithium-ion / Lead-Acid Compatible battery type Rated battery voltage (V) 307.2 Battery voltage range (V) 120 ~ 454.4 Max. charging/discharging current (A) 100 Max. charging/discharging power (W) 25000 Force wake up battery from PV function Grid 120 / 240, 120 / 208 Rated AC voltage (V) Rated AC frequency (Hz) 50 / 60 Rated AC output current (A) Rated AC output power (W) 25000 Max. AC intput current (W) 108A 0.99 (Adjustable from 0.8 leading to 0.8 lagging) THDI 104A / Split; Bypass 200A Max. continuous AC passthrough current (A) GEN Rated GEN voltage (V) 120 / 240, 120 / 208 Rated GEN frequency (Hz) 50 / 60 Rated GEN input current (A) 104 Rated GEN input power (W) 25000 **EPS Output - with Battery** Rated output power (W) 25000 Rated output voltage (V) 120 / 240, 120 / 208 Rated output current (A) 104 Rated output frequency (Hz) 50 / 60 Surge power, duration 2 × rated power for 10s Switching time < 15ms Wave form Sine wave THDV < 3% Efficiency MPPT efficiency 98.0% Max. efficiency 94.0% Max. charge/discharge efficiency 96.0% Protection Anti-islanding Protection YES AC Short-circuit Protection YES Leakage Current Protection YES Grid Monitoring YES YES PV DC Switch 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 AFCI/RSD protection YES GFCI YES General Dimensions (W  $\times$  H  $\times$  D) 626 × 924 × 285 mm / 24.7 × 36.4 × 11.2 in 73 kg / 160.94 lbs Weight Ingress protection rating IP65 Display LCD Tranformerless Topology Ambient Temperature Range  $-25 \sim 60$ °C ( > 45°C, output derating) Standby Losses 10W Sleep Mode, 30W Standby Mode Cooling Smart Cooling Relative Humidity Range 0 ~ 100% Max. Operating Altitude (m) 2000 Noise emission (dB) SunSpec Modbus RTU over RS485, RJ45 for ext Wifi Dongle Communication from Inverter Standards & Certification UL 1741SA, UL 1741SB, CSA C22.2, CEC, IEEE 1547.1, HECO SRD V2.0

GEN-HB-US 25K

48000

6 (A:2 / B:2 / C:1 / D:1 / E:1 / F:1)

120 ~ 480

120

34 / 34 / 17 / 17 / 17 / 17

11/12

Input (PV DC)

Max. PV input power (W)

Rated PV input voltage (V)

Max. PV input voltage (V) MPPT voltage range (V)

Start-up voltage (V)

Number of independent MPPT inputs

Max. PV input current per MPPT (A)

# TriP2-HB-US 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



High Voltage



13/14

Model	TriP2-HB-US 6K	TriP2-HB-US 8K	TriP2-HB-US 10K	TriP2-HB-US 12K	TriP2-HB-US 15K
Input (PV DC)					
Max. PV input power (W)	9000	12000	15000	18000	22500
Rated PV input voltage (V)			690		<u> </u>
Number of independent MPPT inputs		2 / (1:1)		3 / (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 / 20		40 / 4	0 / 40
Max. PV short-circuit current input per MPPT (A)		25 / 25		50 / 5	0 / 50
Battery					
Compatible battery type			Lithium-ion / Lead-Acid		
Rated battery voltage (V)			400		
Battery voltage range (V)			100 ~ 700		
Max. charging voltage (V)			800		
Max. charging / discharging current (A)		50		7	5
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 input current (A)	25.0	33.3	41.7	50.0	62.5
PF		0.99 (Adjust	able from 0.8 leading to 0	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		
UPS					
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)			50 / 60		
Surge power, duration		1.	.5 × rated power for 5mir	1	
Switching time			10ms		
Wave form			Sine wave		
THDV			< 3%		
Efficiency					
Max. efficiency			97.4%		
Max. charge / discharge efficiency			97.2%		
Protection			\/FC		
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		
DC switch			YES		
Ingress protection			YES		
DC Surge protection			Type III		
AC Surge protection			Type III		
General		400 700		100:	
Dimensions (W × H × D)			3 × 258 mm / 18.9 × 27.7		10.2 lbc
Weight		TBD	IDCC	50 kg / 1	10.2 IDS
Ingress protection rating			IP66		
Operating environment temperature range (°C)			-25 ~ 60		
Storage temperature range (°C)			-40 ~ 70		
Relative humidity		_ :	0 ~ 100%	/ CAN	
Display & Communication interface		Touch o	color screen, RS485 / Wifi	/ CAN	
Warranty		NI-4 I U	5 / 10 years		1.
Cooling method		Natural cooling		Smart	cooling
Topology			Transformerless		
Max. Operating Altitude (m)			2000		
Noise emission (dB)			50		
Standards & Certification					

# TriP2-LB-US 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



Low Voltage



Input (PV DC) 9000 12000 Max. PV input power (W) 7500 15000 Rated PV input voltage (V) 690 Number of independent MPPT inputs 3 / (1:1:1) Max. PV input voltage (V) 1000 MPPT voltage range (V) 200 ~ 900 100 Start-up voltage (V) 20/20/20 Max. PV input current per MPPT Max. PV short-circuit current input per MPPT (A) 25 / 25 / 25 Compatible battery type Lithium-ion / Lead-Acid Battery voltage range (V) 125 150 220 Max. charging/discharging current (A) 6000 5000 8000 10000 Max. charging/discharging power (W) Charging Strategy for Li-ion Battery Self-adaption to BMS Input AC (Grid) 3L / N / PE, 120 / 208Vac Input voltage range Rated AC frequency (Hz) 7500 6250 10000 12500 Max. AC intput power (W) 20.8 Max. AC input current 17.4 27.8 34.7 Output AC (Grid) Rated AC voltage (V) 3L / N / PE, 120 / 208Vac Rated AC frequency (Hz) 6000 5000 10000 Rated AC output power (W) 16.7 27.8 Rated AC output current (A) 13.9 0.99 (Adjustable from 0.8 leading to 0.8 lagging) THDI 50 Max. continuous AC passthrough current (A) Rated GEN voltage (V) 3L / N / PE, 120 / 208Vac Rated GEN frequency (Hz) 50 / 60 Rated GEN input current (A) Rated GEN input power (W) 20700 Rated output power (W) 5000 6000 10000 Rated output voltage (V) 3L / N / PE, 120 / 208Vac Rated output current (A) 13.9 16.7 27.8 Rated output frequency (Hz) 50 / 60 1.5 × rated power for 5min Surge power, duration Switching time 10ms Wave form Sine wave THDV < 3% Efficiency Max. efficiency 97.7% 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 protecion YES Grid monitoring YES DC switch YES Ingress protection YES DC Surge protection Type III AC Surge protection Type III General Dimensions ( $W \times H \times D$ ) 480 × 703 × 258 mm / 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% Display & Communication interface Touch color screen, RS485 / Wifi / CAN Warranty 5 / 10 years Cooling method Smart cooling Topology Transformerless Max. Operating Altitude (m) 2000 Noise emission (dB) 50 **Standards & Certification** 

TriP2-LB-US 5K

TriP2-LB-US 6K

TriP2-LB-US 8K

TriP2-LB-US 10K



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.





Input (PV DC)	Model	SNA US 3K
Max. PM input power (W)   330     Number of Independent MPPT inputs   2.7 (1:1)     Number of Independent MPPT inputs   2.7 (1:1)     Max. PM input togge (Y)   120 - 385     Start-up voitage range (Y)   100     Max. PM input current per MPPT (A)   17 / 17     Max. PM input current per MPPT (A)   25 / 25     Start-up voitage (Y)   100     Max. PM input current per MPPT (A)   25 / 25     Start-up voitage (Y)   100     Max. PM input current per MPPT (A)   25 / 25     Start-up voitage (Y)   48     Start-up voitage (Y)   300     Max. Charging discharging power (W)   300     Start-up voitage (Y)   300     Start-up voitage (Y)   300     Start-up voitage (Y)   300     Start-up voitage (Y)   300     Start (A) voitage (Y)   120     Rated AC voitage (Y)   120     Rated AC voitage (Y)   120     Rated AC voitage (Y)   40     Start (A requirency (Hz)   40     Max. AC imput current (A)   32     Rated GEN input power (W)   300     Rated coupt power (W)   300     Rated coupt power (W)   300     Rated coupt power (W)   45     Surge power, duration   41     Start (A)	***	JNA 03 3K
Rated PV   Number of Independent MPPT injusts   2 / (1/11)		8000 (4000 / 4000)
Number of Independent MPPT injunts   2		
Max. PV input voltage (V)		
MPPT voltage range (v)		
Start-up voltage (V)		
Max. Ps   Max.		100
Eathery   Compatible battery type		17 / 17
Compatible battery type	Max. PV short-circuit current input per MPPT (A)	25 / 25
Battery voltage (1)	Battery	
Battery voltage range (V)	Compatible battery type	Lithium-ion / Lead-Acid
Max. charging/discharging current (A)  Max. charging/discharging gower (W) Force wake up battery from PC function Rated AC voltage (V)  Rated AC voltage (V)  Max. AC intitut current (A)  Rated GEN voltage (V)  Rated GEN voltage (V)  Rated GEN frequency (Hz)  So I / 60  Rated GEN input power (W)  3000  Rated GEN input power (W)  3000  Rated GEN input power (W)  3000  Rated output power (W)  400  Rated	Rated battery voltage (V)	48
Max. charging/discharging power (W)   3000	Battery voltage range (V)	38.4 ~ 60
Force wake up battery from EV function Force wake up battery from Grid function Rated AC frequency (Hz) For food Max. AC intiput current (A) Force wake up battery from Grid function Force Force wake up battery from Force Forc		70
Force wake up battery from Grid function   YES	Max. charging/discharging power (W)	3000
Rated AC of requency (Hz) Rated AC frequency (Hz) Rate AC continuous AC passthrough current (A) Rate AC continuous AC passthrough current (A) Rated GEN voltage (Y) Rated GEN inquit current (A) Rated GEN inquit power (W) Rated GUBPA (MC) Rated output power (W) Rated output power (M) Rated output power output		YES
Rated AC yollage (V)	Force wake up battery from Grid function	YES
Rated AC   Frequency (Hz)		
Max. AC intput current (A)         40           Max. AC imput power (W)         4500           Max. Continuous AC passibrough current (A)         60           GEN         120           Rated GEN voltage (V)         120           Rated GEN input current (A)         32           Rated GEN input power (W)         3840           UPS         3840           Rated Output power (W)         3000           Rated output voltage (V)         120           Rated output voltage (V)         120           Rated output current (A)         25           Rated output voltage (V)         50 / 60           Surge power, duration         2 × rated power for 2s           Surbiding time         < 10ms@single / <20ms@Parallel		· · · · · · · · · · · · · · · · · · ·
Max. AC initiput power (W)         4500           Max. continuous AC passthrough current (A)         60           GEN         120           Rated GEN logueuro (Hz)         50 / 50           Rated GEN input current (A)         32           Rated GEN input power (W)         3840           UPS         8           Rated output power (W)         3000           Rated output voltage (Y)         120           Rated output voltage (Y)         120           Rated output frequency (Hz)         50 / 60           Surge power, duration         25           Rated output frequency (Hz)         50 / 60           Switching time         <10ms@Single / <2ums@Parallel		
Max. continuous AC passthrough current (A)         60           GEN         120           Rated GEN Input current (A)         30 / 50           Rated GEN input current (A)         32           Rated GEN input power (W)         3840           UPS           Rated Output power (W)           Rated output power (W)         3000           Rated output voltage (V)         120           Rated output requency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         < 10 msy Single / <20ms@Parallel           Wave form         Sine wave           THOV         3 %           Efficiency         99 9%           Max. MPT efficiency         99 9%           Max. efficiency         99 9%           Max. efficiency         93.0%           Max. efficiency         93.0%           Vest         95.0%           Protection         YES           AC short-circuit current protection         YES           AC Surge protection         YES           AC Surge protection         YES           DC switch         YES           Vex Faul betection         YES		<u>-</u>
GEN         120           Rated GEN Irequency (Hz)         50 / 60           Rated GEN Irequency (Hz)         32           Rated GEN Input corrent (A)         3840           UPS           Rated output power (W)         3000           Rated output voltage (Y)         120           Rated output voltage (Y)         120           Rated output frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@injete(		
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 frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Sutching time         <10ms@single / <20ms@parallel		60
Rated GEN frequency (Hz)         50 / 60           Rated GEN input current (A)         32           Rated GEN input power (W)         3840           UPS         3000           Rated output power (W)         3000           Rated output voltage (V)         120           Rated output frequency (Hz)         55 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@Single / <20ms@Parallel		
Rated GEN input power (W)         3840           UPS         3840           Bated output power (W)         3000           Rated output power (W)         120           Rated output current (A)         25           Rated output frequency (H2)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@single / <20ms@Parallel		
Rated GEN input power (W)   3840		
Rated output power (W)   3000   Rated output voltage (V)   120   Rated output current (A)   25   Rated output frequency (Hz)   50 / 60   Surge power, duration   2 x rated power for 2 S   Switching time   <10ms@Single / <20ms@Parallel   Sine wave   THDV   <3%   Sine wave   Sine wa	-	
Rated output power (W)         3000           Rated output voltage (V)         120           Rated output current (A)         25           Rated output frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@Single / <20ms@Parallel		3840
Rated output voltage (V)         120           Rated output current (A)         25           Rated output frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@Single / <20ms@Parallel		2000
Rated output current (A)         25           Rated output frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2 s           Switching time         < 10ms@single / < 20ms@Parallel		
Rated output frequency (Hz)         50 / 60           Surge power, duration         2 × rated power for 2s           Switching time         <10ms@Single / <20ms@Parallel		
Surge power, duration         2 × rated power for 2s           Switching time         <10ms@single / <20ms@praallel		-
Switching time         <10ms@Single / <20ms@Parallel		
Wave form         Sine wave           THDV         < 3%           Efficiency         99.9%           Max. MPPT efficiency         99.9%           Max. efficiency         93.0%           Max. charge / discharge efficiency         93.0%           Protection         VES           Over current / voltage protection         YES           AC Surge protection         YES           Grid monitoring         YES           AC Surge protection         YES           Battery reverse polarity protection         YES           DC switch         YES           PV Arc Fault Detection         YES           General         YES           Dimensions (W * H * D)         330 * 505 * 135 mm / 13 * 19.9 * 5.3 in           Weight         14.5 kg / 31.97 lbs           Ingress protection rating         IP20           Operating environment temperature range (°C)         0 ~ 50           Storage temperature range (°C)         -5.60           Relative humidity         5% ~ 95%           Display & Communication interface         LCD+LED, RS485 / Wi-Fi / CAN           Warranty         2 years           Cooling method         Smart Cooling           Noise emission (dB)         50	• .	·
### THDV	-	
Efficiency     99.9%       Max. MPPT efficiency     93.0%       Max. cfficiency     93.0%       Max. charge / discharge efficiency     93.0%       Protection     YES       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       VA rc Fault Detection     YES       General     YES       Dimensions (W × H × D)     330 × 505 × 135 mm / 13 × 19.9 × 5.3 in       Weight     14.5 kg / 31.97 lbs       Ingress protection rating     IP20       Operating environment temperature range (°C)     0 - 50       Storage temperature range (°C)     0 - 50       Storage temperature range (°C)     15 ~ 60       Relative humidity     5 ~ 95%       Display & Communication interface     LCD+LED, RS485 / Wi-Fi / CAN       Warranty     2 years       Cooling method     Smart Cooling       Topology     Transformerless       Max. Operating Altitude (m)     2000       Noise emission (dB)     50		
Max. MPT efficiency 99.9%  Max. efficiency 93.0%  Max. charge / discharge efficiency  Protection  Over current / voltage protection  AC short-circuit current protection  AC short-circuit current protection  FYES  AC Surge protection  AC Surge protection  FYES  AC Surge protection  Type III  Sattery reverse polarity protection  YES  DC switch  YES  PV Arc Fault Detection  FYES  Ceneral  Dimensions (W × H × D)  May Sob > 135 mm / 13 × 19.9 × 5.3 in  Weight  Ingress protection rating  Ip20  Operating environment temperature range (°C)  Storage temperature range (°C)  Folage temperature range (°C)  Storage temperature range (°C)  Fishelative humidity  Display & Communication interface  LCD+LED, R\$485 / Wi-Fi / CAN  Warranty  Cooling method  Smart Cooling  Topology  Noise emission (dB)  Noise emission (dB)		<b>\</b> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Max. efficiency 93.0%  Max. charge / discharge efficiency  Protection  Over current / voltage protection  AC short-circuit current protection  Grid monitoring  YES  AC Surge protection  Type III  Battery reverse polarity protection  YES  OC switch  YES  VES  VES  VES  VES  VES  VES  VES		99.9%
Max. charge / discharge efficiency  Protection  Over current / voltage protection  AC short-circuit current protection  Fig. 3 YES  AC Surge protection  AC Surge protection  Battery reverse polarity protection  Fyes III  Battery reverse polarity protection  YES  Coswitch  PV Arc Fault Detection  General  Dimensions (W × H × D)  Bigness protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  LCD+LED, RS485 / Wi-Fi / CAN  Warranty  Cooling method  Noise emission (dB)  Noise emission (dB)		
Over current / voltage protection  AC short-circuit current protection  AC short-circuit current protection  Grid monitoring  AC Surge protection  Battery reverse polarity protection  CS witch  PV Arc Fault Detection  Type III  Battery reverse polarity protection  YES  PV Arc Fault Detection  YES  General  Dimensions (W × H × D)  S30 × 505 × 135 mm / 13 × 19.9 × 5.3 in  Weight  Ingress protection rating  IP20  Operating environment temperature range (°C)  Storage temperature range (°C)  To - 50  Storage temperature range (°C)  Relative humidity  S% ~ 95%  Display & Communication interface  LCD+LED, RS485 / Wi-Fi / CAN  Warranty  Cooling method  Smart Cooling  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)	-	
AC short-circuit current protection  Grid monitoring  AC Surge protection  Type III  Battery reverse polarity protection  YES  DC switch  PV Arc Fault Detection  Tyes  General  Dimensions (W × H × D)  Meight  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  Warranty  Cooling method  Topology  Noise emission (dB)  PYES  YES  AC Surge III  AVES	Protection	
Grid monitoringYESAC Surge protectionType IIIBattery reverse polarity protectionYESDC switchYESPV Arc Fault DetectionYESGeneralDimensions (W × H × D)330 × 505 × 135 mm / 13 × 19.9 × 5.3 inWeight14.5 kg / 31.97 lbsIngress protection ratingIP20Operating environment temperature range (°C)0 ~ 50Storage temperature range (°C)-15 ~ 60Relative humidity5% ~ 95%Display & Communication interfaceLCD+LED, RS485 / Wi-Fi / CANWarranty2 yearsCooling methodSmart CoolingTopologyTransformerlessMax. Operating Altitude (m)2000Noise emission (dB)50	Over current / voltage protection	YES
AC Surge protection  Battery reverse polarity protection  PVES  DC switch  PV Arc Fault Detection  Seneral  Dimensions (W × H × D)  Dimensions (W × H × D)  Sano × 505 × 135 mm / 13 × 19.9 × 5.3 in  Weight  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Signary  Display & Communication interface  LCD+LED, RS485 / Wi-Fi / CAN  Warranty  Cooling method  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)	AC short-circuit current protection	YES
Battery reverse polarity protection  PC switch  PV Arc Fault Detection  General  Dimensions (W × H × D)  Meight  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  Warranty  Cooling method  Topology  Noise emission (dB)  PYES  YES  9YES  330 × 505 × 135 mm / 13 × 19.9 × 5.3 in  14.5 kg / 31.97 lbs  1920  0 ~ 50  1-5 ~ 60  1-5	Grid monitoring	YES
DC switch PV Arc Fault Detection  General  Dimensions (W × H × D)  Weight Ingress protection rating Operating environment temperature range (°C) Storage temperature range (°C) Relative humidity Display & Communication interface  Cooling method Topology  Max. Operating Altitude (m)  PYES  YES  YES  YES  YES  YES  YES  YE	AC Surge protection	Type III
PV Arc Fault Detection  General  Dimensions (W × H × D)  330 × 505 × 135 mm / 13 × 19.9 × 5.3 in  Weight  14.5 kg / 31.97 lbs  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  Warranty  Cooling method  Topology  Max. Operating Altitude (m)  Noise emission (dB)	Battery reverse polarity protection	YES
Dimensions (W × H × D)  330 × 505 × 135 mm / 13 × 19.9 × 5.3 in  Weight  14.5 kg / 31.97 lbs  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  UCD+LED, RS485 / Wi-Fi / CAN  Warranty  Cooling method  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)	DC switch	YES
Dimensions (W × H × D)  330 × 505 × 135 mm / 13 × 19.9 × 5.3 in  Weight  14.5 kg / 31.97 lbs  Ingress protection rating  Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Sw ~ 95%  Display & Communication interface  LCD+LED, RS485 / Wi-Fi / CAN  Warranty  2 years  Cooling method  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)	PV Arc Fault Detection	YES
Weight14.5 kg / 31.97 lbsIngress protection ratingIP20Operating environment temperature range (°C)0 ~ 50Storage temperature range (°C)-15 ~ 60Relative humidity5% ~ 95%Display & Communication interfaceLCD+LED, RS485 / Wi-Fi / CANWarranty2 yearsCooling methodSmart CoolingTopologyTransformerlessMax. Operating Altitude (m)2000Noise emission (dB)50	General	
Ingress protection rating Operating environment temperature range (°C) Storage temperature range (°C) Relative humidity Display & Communication interface LCD+LED, RS485 / Wi-Fi / CAN Warranty 2 years Cooling method Smart Cooling Topology Transformerless Max. Operating Altitude (m) Noise emission (dB)	Dimensions (W × H × D)	$330 \times 505 \times 135$ mm / $13 \times 19.9 \times 5.3$ in
Operating environment temperature range (°C)  Storage temperature range (°C)  Relative humidity  Display & Communication interface  LCD+LED, RS485 / Wi-Fi / CAN  Warranty  2 years  Cooling method  Smart Cooling  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)	Weight	14.5 kg / 31.97 lbs
Storage temperature range (°C) Relative humidity 5% ~ 95% Display & Communication interface LCD+LED, RS485 / Wi-Fi / CAN Warranty 2 years Cooling method Smart Cooling Topology Transformerless Max. Operating Altitude (m) Noise emission (dB) 50		IP20
Relative humidity 5% ~ 95%  Display & Communication interface LCD+LED, RS485 / Wi-Fi / CAN  Warranty 2 years  Cooling method Smart Cooling  Topology Transformerless  Max. Operating Altitude (m) 2000  Noise emission (dB) 50		
Display & Communication interface  UCD+LED, RS485 / Wi-Fi / CAN  2 years  Cooling method  Smart Cooling  Topology  Transformerless  Max. Operating Altitude (m)  Noise emission (dB)		
Warranty2 yearsCooling methodSmart CoolingTopologyTransformerlessMax. Operating Altitude (m)2000Noise emission (dB)50		
Cooling methodSmart CoolingTopologyTransformerlessMax. Operating Altitude (m)2000Noise emission (dB)50		
TopologyTransformerlessMax. Operating Altitude (m)2000Noise emission (dB)50		· · · · · · · · · · · · · · · · · · ·
Max. Operating Altitude (m) 2000 Noise emission (dB) 50		
Noise emission (dB) 50		
Standards & Certification	Standards & Certification	

# **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





21/2	
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Model	SNA US 6K
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)
Max. PV input voltage (V)	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	
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
Force wake up battery from PV function	YES
Force wake up battery from Grid function	YES
Grid	TES
Rated AC voltage (V)	110(  N ) / 220(  1   2): 120(  N ) / 240(  1   2)
Rated AC frequency (Hz)	110(L-N) / 220(L1-L2); 120(L-N) / 240(L1-L2) 50 / 60
Max. AC intput current (A)	41A@220V / 37.5A@240V
Max. AC intput power (W)	9000
Max. continuous AC passthrough current (A)	50
GEN	
Rated GEN voltage (V)	120 / 240
Rated GEN frequency (Hz)	50 / 60
Rated GEN input current (A)	32
Rated GEN input power (W)	7370
UPS	
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	2 × rated power for 2s
Switching time	<7ms@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
Rapid shut down	YES
PV Arc Fault Detection	YES
AC & UPS breaker (Current/Voltage)	50A / 230VAC
Battery breaker (Current/Voltage)	200A / 80V/DC
GEN breaker (Current/Voltage)	50A / 230V/AC
General	30A7 230V/AC
Dimensions (W × H × D)	450 × 650 × 150 mm / 17.7 × 25.6 × 5.9 in
· · · · · · · · · · · · · · · · · · ·	
Weight	24 kg / 53 lbs
Ingress protection rating Operating environment temperature range (°C)	IP20
	0 ~ 50 -15 ~ 60
Storage temperature range (°C) Relative humidity	
-	5% ~ 95%
Display & Communication interface	LCD+LED, RS485 / Wi-Fi / CAN
Warranty	2 years
Cooling method Topology	Smart Cooling Transformariass
Topology  May Operating Altitude (m)	Transformerless
Max. Operating Altitude (m)	2000
Noise emission (dB)	50
Standards & Certification	

## **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
- Dedicated GEN Port with Auto-Start and GEN Boost Function





Model	SNA US 12K SNA US 15K
nput (PV DC)	
Max. PV input power (W)	24000 (12000 / 12000)
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2 / (2:2)
Max. PV input voltage (V)	480
	120 ~ 440
MPPT voltage range (V)	
Start-up voltage (V)	100
Max. PV input current per MPPT (A)	35 / 35
Max. PV short-circuit current input per MPPT (A)	44 / 44
Battery	
Compatible battery type	Lithium-ion / Lead-Acid
Rated battery voltage (V)	48 / 51.2
Battery voltage range (V)	46.4 ~ 60 / 38.4 ~ 60
Max. charging / discharging current (A)	250
Max. charging / discharging power (W)	12000
Force wake up battery from PV and Grid function	YES
Grid	
Rated AC voltage (V)	120 / 240; 120 / 208
AC Start-up Voltage	90 (L-L)
Acceptable Input Voltage Range (V)	130 ~ 280 (L-L)
Rated AC frequency (Hz)	50 / 60
Rated AC input current (A)	100A@240V
Rated AC input power (W)	24000
PF	0.99
THDI	< 5%
Max. continuous AC passthrough current(A)	100
GEN	
Rated GEN voltage (V)	120 / 240; 120 / 208
Rated GEN frequency (Hz)	50 / 60
Rated GEN input current (A)	62.5
Rated GEN input power (W)	15000
JPS	
Rated output power (W)	12000 15000@240V (with PV + Battery)
Rated output voltage (V)	120 / 240; 120 / 208
Rated output current (A)	50@240V 62.5@240V
Rated output frequency (Hz)	50 / 60
Surge power, duration	2 × rated power for 5s
Switching time (UPS)	<10ms
Vave form	Sine wave
	3%
THDV	
Overload protection	D501 ₩U21 ~0%U11 ₩2U1 \ Db01 0%UC1 > ₩2C
Efficiency	
MPPT efficiency	99.0%
Max. efficiency	93.5%
Max. charge / discharge efficiency	93.0%
Protection	
PV reverse polarity protection (Y/N)	YES
Over current / voltage protection (Y/N)	YES
• • • • • • • • • • • • • • • • • • • •	YES
AC Short-circuit current protection (Y/N)	
Grid monitoring (Y/N)	YES
OC switch (Y/N)	YES
OC Surge protection	Type III
AC Surge protection	Type III
Battery reverse polarity protection (Y/N)	YES
RSD / AFCI monitoring (Y/N)	YES
JPS / Battery breakers integrated	YES
General	165
	E20 v 020 v 150 mm / 17 72 v 25 50 v 5 0 in
Dimensions ( W × H × D mm )	530 × 830 × 150 mm / 17.72 × 25.59 × 5.9 in
Veight	47.5 kg / 104.72 lbs
ngress protection rating	IP20
Operating environment temperature range(°C)	
Storage temperature range(°C)	0 ~ 45
torage temperature range( c)	0 ~ 45 -15 ~ 60
Relative humidity	-15 ~ 60 5% ~ 95%
Relative humidity Display & Communication interface	-15 ~ 60 5% ~ 95% LCD+RGB, RS485 / Wifi / CAN
Relative humidity Display & Communication interface Warranty	-15 ~ 60 5% ~ 95% LCD+RGB, RS485 / Wifi / CAN 2 years
Relative humidity Display & Communication interface Warranty Cooling method	-15 ~ 60 5% ~ 95% LCD+RGB, RS485 / Wifi / CAN 2 years Smart cooling
Relative humidity Display & Communication interface Warranty Cooling method Topology on AC / Battery side	-15 ~ 60 5% ~ 95%  LCD+RGB, RS485 / Wifi / CAN 2 years  Smart cooling  Transformerless / Transformer
Relative humidity Display & Communication interface Warranty Cooling method	-15 ~ 60 5% ~ 95% LCD+RGB, RS485 / Wifi / CAN 2 years Smart cooling
Relative humidity Display & Communication interface Warranty Cooling method Topology on AC / Battery side	-15 ~ 60 5% ~ 95%  LCD+RGB, RS485 / Wifi / CAN 2 years  Smart cooling  Transformerless / Transformer
Relative humidity Display & Communication interface Warranty Cooling method Topology on AC / Battery side Max. Operating Altitude (m)	-15 ~ 60 5% ~ 95%  LCD+RGB, RS485 / Wifi / CAN 2 years  Smart cooling  Transformerless / Transformer 2000

# **Smart Energy Integration Hub**

# **PowerHub**

# Key Features:

### • Centralized Control:

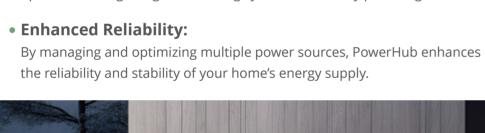
PowerHub acts as the central controller for all home power sources, efficiently integrating the grid, existing grid-tied systems, generators, and directly connecting to various types of loads to supply uninterrupted electricity to your home.

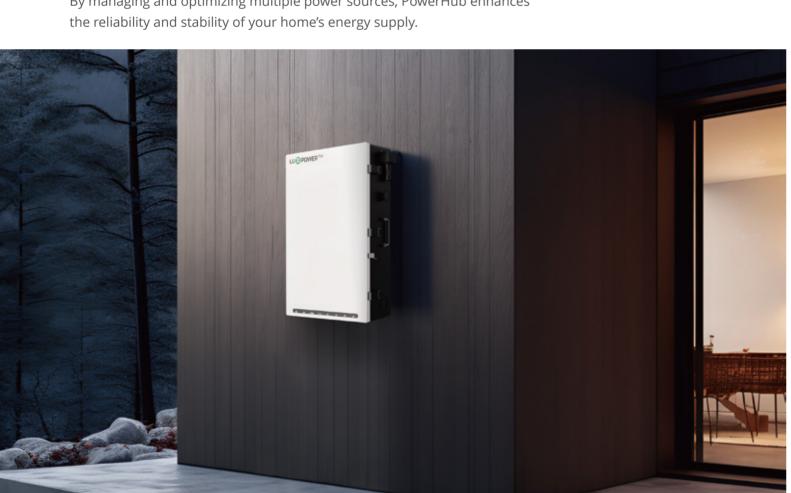
### Seamless Transition:

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.



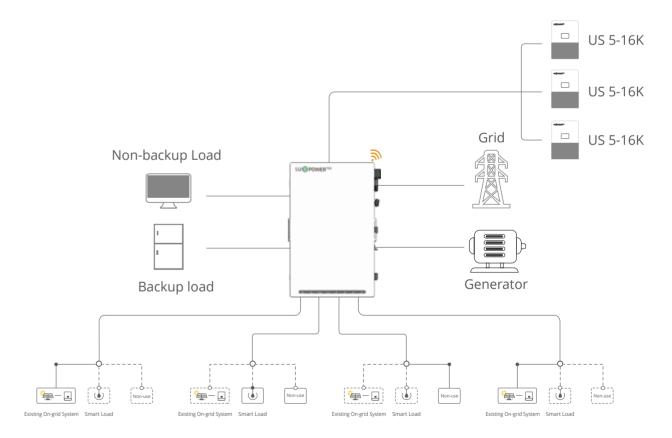


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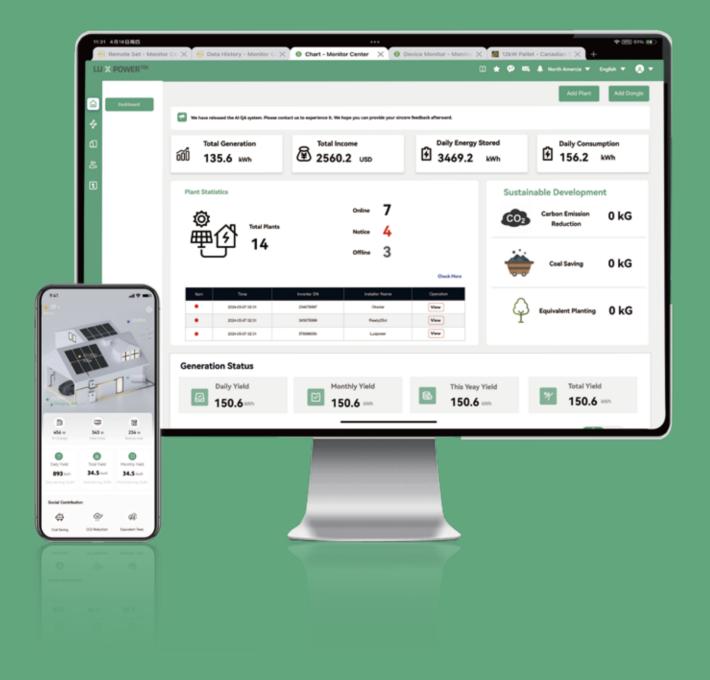
Performance specifications	Pov	verHub	
Port Name	Port Qty	Max. Current	
For Hybrid Inverter	3	70	
		125	
		80	
or Smart load	4	60	
		60	
or backup load	1	200	
r Non-backup load	1	200	
r Generator	1	125	
r Grid	1	200	
neral Data		·	
rating Ambient Temperature Range	-40°C to 60°	°C -40°F to 140°F	
c. Operating Altitude	2000 m (6561 ft)		
ative Humidity	0~100%		
tdoor Rating	NEMA 4X		
mensions	500 × 800 × 178 mm / 19.7 × 31.5 × 7 in		
eight	25 kg / 55 lbs		
ounting	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





Android

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