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LU X POWER^{TEK}

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V2610

**YOUR RELIABLE
ENERGY SOLUTION
PARTNER**

LU X POWER^{TEK}



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 350,000 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.



Residential
Anywhere, Anytime



Commercial
Reliable & Efficient



Industrial & Microgrid
Stronger Together

350,000+

Systems

30kW

Max.Power

100+

Country operations

100%

Service coverage

LuxpowerTek Home Energy Solutions

Smart · Reliable · Complete Power for Every Home

LuxpowerTek delivers an integrated home energy system that links solar power, batteries, inverters, and LuxCloud 2.0 for seamless control and higher self-consumption.



Solar Power Generation

Rooftop PV captures solar energy and feeds it to LuxpowerTek inverters for smart conversion and distribution.



Smart Load Management

Dedicated backup/smart load ports keep essential appliances running during outages.



Hybrid / Off-Grid Inverters

LuxpowerTek inverters optimize energy use — prioritizing solar, charging batteries, powering home loads, and managing grid interaction.



Generator & AC-Coupling Support

Supports generator auto-start and AC-coupling with existing solar systems to expand backup capability.



Battery Energy Storage

With LuxpowerTek IP20 & IP65 batteries, store solar energy for self-use and reliable backup.



LuxCloud 2.0 Monitoring

Real-time energy flow, battery status, yield, backup time, carbon savings, and remote control—powered by LuxBot AI.

LEADING THE SMART ENERGY TRANSITION

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HYBRID SERIES

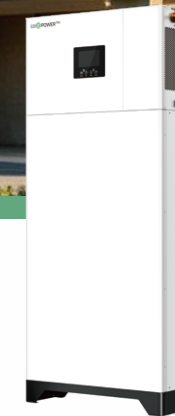
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OFF-GRID SERIES

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HYBRID SERIES



Intelligent Energy Management

- Self-consumption optimization
- TOU scheduling
- Intelligent energy optimization

Flexible System Expansion

- Up to 16 units in parallel
- Single-phase & three-phase solutions
- Flexible system scalability

Open Battery Ecosystem

- Leading battery compatibility
- Remote BMS upgrade
- Automatic battery wake-up

Smart Connectivity

- LuxCloud monitoring
- AC Coupling support
- Smart Home compatibility

Reliable Backup Power

- UPS switching <7ms
- Reliable backup for critical loads
- Generator support

Single-Phase

3-14kW Residential Solutions

GEN2-LB-EU 3-6K

GEN2-LB-EU 7-14K

GEN3-LB-EU 3-8K

GEN PRO-LB-EU 8-12K

Three-Phase

5-30kW Residential & C&I Solutions

TriP2-LB-3P 5-20K

TriP2-HB-3P 6-30K

HYBRID SERIES

GEN2-LB-EU
3-6K
(Single-Phase)



9.6kW

Max. PV input power



125/140A

Max. charge/discharge current



10

Units parallel

◆ Max. PV input current per MPPT 18A

◆ 24/7 real-time monitoring, access and manage remotely

◆ Dedicated port for Generator, Smart load and AC coupling

Model	GEN2-LB-EU 3K	GEN2-LB-EU 3.6K	GEN2-LB-EU 4K	GEN2-LB-EU 4.6K	GEN2-LB-EU 5K	GEN2-LB-EU 6K
Input (PV DC)						
Max. PV input power (W)	6600	7000		9000	9600	
Rated PV input voltage (V)	360					
Number of independent MPPT inputs	2 / (1:1)					
Max. PV input voltage (V)	530					
MPPT voltage range (V)	150 ~ 425					
Start-up voltage (V)	100					
Max. PV input current per MPPT (A)	18 / 18					
Max. PV short-circuit current input per MPPT (A)	32 / 32					
Battery						
Compatible battery type	Lithium-ion / Lead-Acid					
Rated battery voltage (V)	48					
Battery voltage range (V)	40 ~ 60					
Max. charging / discharging current (A)	80 / 80	80 / 80	80 / 80	96 / 96	105 / 120	125 / 140
Max. charging / discharging power (W)	3000	3600	4000	4600	5000	6000
Force wake up battery from PV&Grid&GEN function	YES					
Grid						
Rated AC voltage (V)	230					
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	13	15.7	17.4	20	21.7	26
Rated AC output power (W)	3000	3600	4000	4600	5000	6000
Max. AC input power (W)	12000					
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
THDI	< 3%					
Max. continuous AC passthrough current (A)	52.2					
GEN						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50 / 60					
Rated GEN input current (A)	40					
Rated GEN input power (W)	9200					
UPS						
Rated output power (W)	3000	3600	4000	4600	5000	6000
Rated output voltage (V)	230					
Rated output current (A)	13	15.7	17.4	20	21.7	26
Rated output frequency (Hz)	50 / 60					
Surge power, duration	2 × rated power for 0.5s					
Switching time (UPS)	7ms					
Wave form	Sine wave					
THDV	< 5%					
Efficiency						
MPPT efficiency	99.9%					
EU efficiency	96.0%					
Max. efficiency	97.3%					
Max. charge / discharge efficiency	94.5%					
Protection						
Over current / voltage protection	YES					
Anti-islanding protection	YES					
AC short-circuit current protection	YES					
Leakage current protection	YES					
Ground fault monitoring	YES					
Grid monitoring	YES					
DC switch	YES					
DC surge protection	Type III					
AC surge protection	Type III					
General						
Dimensions (W × H × D)	440 × 528 × 220 mm / 17.4 × 20.8 × 8.7 in					
Weight	25 kg / 55 lbs					
Ingress protection rating	NEMA4X / IP66					
Operating environment temperature range (°C)	-25 ~ 60					
Storage temperature range (°C)	-40 ~ 65					
Relative humidity	0 ~ 100%					
Display & Communication interface	LCD + RGB, RS485 / Wi-Fi / CAN					
Warranty	5 / 10 years					
Cooling method	Natural Cooling			Smart cooling		
Topology on AC / Battery side	Transformerless / Transformer					
Max. operating altitude (m)	4000, > 2000 Derating					
Noise emission (dB)	< 30			< 40		< 50
DC connection (VP-D4/MC4 (Optional))	MC4					
AC connector	YES					
Standards & Certification						

EN 62109/EN 61000, IEC 62116, IEC 61727, IEC 61683, G100/G99/G98, PIPEREE TypeA, CEI 0-21: 2022 (V2:2024-01)

HYBRID SERIES

GEN2-LB-EU
7-14K
(Single-Phase)



18kW

Max. PV input power



250A

Max. charge/discharge current



10

Units parallel

◆ AI-Driven optimization mode for e-bill reduction

◆ Dedicated port for Generator, Smart load and AC coupling

◆ Support auto generator control, generator exercise, generator boost

Model	GEN2-LB-EU 7K		GEN2-LB-EU 8K	GEN2-LB-EU 10K	GEN2-LB-EU 12K	GEN2-LB-EU 14K
Input (PV DC)						
Max. PV input power (W)	12000			15000	18000	
Rated PV input voltage (V)	340					
Number of independent MPPT inputs	3 / (1:1:1)					
Max. PV input voltage (V)	550					
MPPT voltage range (V)	120 ~ 440					
Start-up voltage (V)	100					
Max. PV input current per MPPT (A)	26 / 15 / 15					
Max. PV short-circuit current input per MPPT (A)	31 / 18 / 18					
Battery						
Compatible battery type	Lithium-ion / Lead-Acid					
Rated battery voltage (V)	48					
Battery voltage range (V)	40 ~ 60					
Max. charge / discharge current (A)	147	167		210	250	
Max. charge / discharge power (W)	7000	8000		10000	12000	
Force wake up battery from PV&Grid&GEN function	YES					
Grid						
Rated AC voltage (V)	230					
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	30.5	35		43.5	52	61
Rated AC output power (W)	7000	8000		10000	12000	14000
Acceptable input voltage range (V)	180 ~ 270					
Max. AC input current (A)	100					
Max. AC input power (W)	22500					
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
THDI	< 5%					
Max continuous AC passthrough current (A)	100					
GEN						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50 / 60					
Rated GEN input current (A)	80					
Rated GEN input power (W)	18000					
UPS						
Rated output power (W)	7000	8000		10000	12000	
Rated output voltage (V)	230					
Rated output current (A)	30.5	35		43.5	52	
Rated output frequency (Hz)	50 / 60					
Surge power, duration	2 × rated power for 0.5s					
Switching time (UPS)	<7ms@Single; <20ms@Parallel					
Wave form	Sine wave					
THDV	< 3%					
Efficiency						
MPPT efficiency	99.9%					
EU efficiency	94.2%					
Max. efficiency	95.1%					
Max. charge / discharge efficiency	95.0%					
Protection						
Over current / voltage protection	YES					
AC short-circuit current protection	YES					
Grid monitoring	YES					
DC switch	YES					
AC / DC surge protection	Type III					
General						
Dimensions (W × H × D)	566 × 653 × 275 mm / 22.3 × 25.7 × 10.8 in					
Weight	48 kg / 105.8 lbs					
Ingress protection rating	IP66					
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 / Wifi / CAN					
Warranty	5 / 10 years					
Cooling method	Smart cooling					
Topology on AC / Battery side	Transformerless / Transformer					
Max. operating altitude (m)	4000, > 2000 Derating					
Noise emission (dB)	< 55					
Standard & Certification						

HYBRID SERIES

GEN3-LB-EU
3-8K
(Single-Phase)



12kW

Max. PV input power



180A

Max. charge/discharge current



IP66

Protection rating

◆ Next-generation internal structure optimization

◆ Supports up to 16 units in parallel

◆ Built-in Type II AC/DC surge protection

Model	GEN3-LB-EU 3K	GEN3-LB-EU 3.6K	GEN3-LB-EU 4K	GEN3-LB-EU 4.6K	GEN3-LB-EU 5K	GEN3-LB-EU 6K	GEN3-LB-EU 6.5K	GEN3-LB-EU 7K	GEN3-LB-EU 8K
Input (PV DC)									
Max. PV input power (W)	6600	7000	7000	8000	8000	12000			
Rated PV input voltage (V)						360			
Number of independent MPPT inputs						2 / (1:1)			
Max. PV input voltage (V)						530			
MPPT voltage range (V)						60 ~ 425			
Start-up voltage (V)						140			
Max. PV input current per MPPT (A)						20 / 20			
Max. PV short-circuit current input per MPPT (A)						32 / 32			
Battery									
Compatible battery type	Lithium-ion / Lead-Acid								
Rated battery voltage (V)	48								
Battery voltage range (V)	40 ~ 60								
Max. charge / discharge current (A)	80	80	80	95	120	125	135	147	180
Max. charge / discharge power (W)	3600	3600	4000	4600	5000	6000	6500	7000	8000
Force wake up battery from PV&Grid&GEN function	YES								
Grid									
Rated AC voltage (V)	230								
Rated AC frequency (Hz)	50 / 60								
Rated AC output current (A)	13	16	17.5	20	21.7	26	28.2	30.5	34.7
Rated AC output power (W)	3000	3600	4000	4600	5000	6000	6500	7000	8000
Max. AC input current (A)	52								
Max. AC input power (W)	12000								
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)								
THDI	< 3%								
Max continuous AC passthrough current (A)	52								
GEN									
Rated GEN voltage (V)	230								
Rated GEN frequency (Hz)	50 / 60								
Rated GEN input current (A)	52								
Rated GEN input power (W)	12000								
UPS									
Rated output power (W)	3000	3600	4000	4600	5000	6000	6500	7000	8000
Rated output voltage (V)	230								
Rated output current (A)	13	16	17.5	20	21.7	26	28.2	30.5	34.7
Rated output frequency (Hz)	50 / 60								
Surge power, duration	2 × rated power for 10s								
Switching time	7ms								
Wave form	Sine wave								
THDV	< 3%								
Efficiency									
MPPT efficiency	99.9%								
EU efficiency	95.9%								
Max. efficiency	97.0%								
Max. charge / discharge efficiency	95.0%								
Protection									
Over current / voltage protection	YES								
Anti-islanding protection	YES								
AC short-circuit current protection	YES								
Leakage current protection	YES								
AFCI	Optional								
Ground fault monitoring	YES								
Grid monitoring	YES								
DC switch	YES								
AC / DC surge protection	Type II								
General									
Dimensions (W × H × D)	416 × 538.5 × 229.5 mm / 16.38 × 21.2 × 9.04 in								
Weight	22.5 kg / 49.6 lbs								
Ingress protection rating	IP66								
Relative humidity	0 ~ 100%								
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating								
Storage temperature range (°C)	-40 ~ 65								
Display & Communication interface	LCD, RS485, Wifi, CAN								
Warranty	5 / 10 years								
Cooling method	Smart cooling								
Topology on AC / battery side	Transformerless / Transformer								
Max. operating altitude (m)	4000, > 2000 Derating								
Noise emission (dB)	< 50								
Standard & Certification									

HYBRID SERIES

GEN PRO-LB-EU
8-12K
(Single-Phase)



21kW
Max. PV input
power



270A
Max. charge/discharge
current



16
Units parallel

- ◆ Output power from 8kW to 12kW
- ◆ Built-in Type II AC/DC surge protection
- ◆ IP66 protection rating
- ◆ Next-generation internal structure optimization

Model	GEN PRO-LB-EU 8K		GEN PRO-LB-EU 10K	GEN PRO-LB-EU 12K
Input (PV DC)				
Max. PV input power (W)	16000		21000	
Rated PV input voltage (V)			360	
Number of independent MPPT inputs			3 / (1:1:1)	
Max. PV input voltage (V)			530	
MPPT voltage range (V)			60 ~ 425	
Start-up voltage (V)			50	
Max. PV input current per MPPT (A)			20 / 20 / 20	
Max. PV short-circuit current input per MPPT (A)			32 / 32 / 32	
Battery				
Compatible battery type	Lithium-ion / Lead-Acid			
Rated battery voltage (V)	48			
Battery voltage range (V)	48 ~ 60			
Max. charge / discharge current (A)	180		230	270
Max. charge / discharge power (W)	8000		10000	12000
Force wake up battery from PV&Grid&GEN function	YES			
Grid				
Rated AC voltage (V)	230			
Rated AC frequency (Hz)	50 / 60			
Rated AC output current (A)	34.7		43.5	52
Rated AC output power (W)	8000		10000	12000
Max. AC input current (A)	100			
Max. AC input power (W)	23000			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	< 3%			
Max continuous AC passthrough current (A)	100			
GEN				
Rated GEN voltage (V)	230			
Rated GEN frequency (Hz)	50 / 60			
Rated GEN input current (A)	80			
Rated GEN input power (W)	18400			
UPS				
Rated output power (W)	8000		10000	12000
Rated output voltage (V)	230			
Rated output current (A)	34.7		43.5	52
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 10s			
Switching time	7ms			
Wave form	Sine wave			
THDV	< 3%			
Efficiency				
MPPT efficiency	99.9%			
EU efficiency	96.0%			
Max. efficiency	97.3%			
Max. charge / discharge efficiency	95.0%			
Protection				
Over current / voltage protection	YES			
Anti-islanding protection	YES			
AC Short-circuit current protection	YES			
Leakage current protection	YES			
AFCI	Optional			
Ground fault monitoring	YES			
Grid monitoring	YES			
DC Switch	YES			
AC / DC Surge protection	Type II			
General				
Dimensions (W × H × D)	420 × 634 × 229.5 mm / 16.54 × 24.96 × 9.04 in			
Weight	27.2 kg / 60 lbs		30.2 kg / 66.7 lbs	
Ingress protection rating	IP66			
Relative humidity	0 ~ 100%			
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating			
Storage temperature range (°C)	-40 ~ 65			
Display & Communication interface	LCD, RS485, Wifi, CAN			
Warranty	5 / 10 years			
Cooling method	Smart cooling			
Topology on AC / Battery side	Transformerless / Transformer			
Max. operating altitude (m)	4000, > 2000 Derating			
Noise emission (dB)	< 50			
Standard & Certification				
EN62109-1/-2, EN61000, EN50549-1/-10, UNE27001/UNE27002, G99, G100				

Model	TriP2-LB-3P 5K	TriP2-LB-3P 6K	TriP2-LB-3P 8K	TriP2-LB-3P 10K	TriP2-LB-3P 12K	TriP2-LB-3P 15K	TriP2-LB-3P 20K
Input (PV DC)							
Max. PV input power (W)	7500	9000	12000	15000	18000	22500	30000
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						
Start-up voltage (V)	100						
Max. PV input current per MPPT (A)	20 / 20 / 20						
Max. PV short-circuit current input per MPPT (A)	25 / 25 / 25						
Battery							
Compatible battery type	Lithium-ion / Lead-Acid						
Battery voltage range (V)	40 - 60						
Max. charging / discharging current (A)	125	150	200	220	250	250	250
Max. charging / discharging power (W)	5000	6000	8000	10000	12000	12000	12000
Charging strategy for Li-ion battery	Self-adaption to BMS						
Grid							
Rated AC voltage (V)	3L / N / PE, 220 / 380 Vac, 230 / 400 Vac						
Rated AC frequency (Hz)	50 / 60						
Rated AC output power (W)	5000	6000	8000	10000	12000	15000	20000
Rated AC output current (A)	7.6 / 7.2	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	22.7 / 21.7	30.3 / 29.0
Max. AC input current (A)	9	10.9	14.5	18.1	21.8	27.1	36.25
Max. output apparent power (VA)	5000	6000	8000	10000	12000	15000	20000
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)						
THDI	< 3%						
Max. continuous AC passthrough current (A)	30			50			70
GEN							
Rated GEN voltage (V)	3L / N / PE, 220 / 380 Vac, 230 / 400 Vac						
Rated GEN frequency (Hz)	50/60						
Rated GEN input current (A)	30						
Rated GEN input power (W)	20700						
UPS							
Rated output power (W)	5000	6000	8000	10000	12000	15000(PV+Battery)	20000(PV+Battery)
Rated output voltage (V)	3L / N / PE, 220 / 380 Vac, 230 / 400 Vac						
Rated output current (A)	7.6 / 7.2	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	22.7 / 21.7	30.3 / 29.0
Rated output frequency (Hz)	50 / 60						
Surge power, duration	1.5 × rated power for 5min						
Switching time	≤10ms						
Wave form	Sine wave						
THDV	< 3%						
Efficiency							
MPPT efficiency	99.0%						
EU efficiency	97.5%						
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 protection	YES						
Grid monitoring	YES						
DC switch	YES						
Ingress protection	YES						
DC surge protection	Type III						
AC surge protection	Type III						
General							
Dimensions (W × H × D)	480 × 703 × 258mm / 18.9 × 27.7 × 10.2 in						
Weight	53 kg / 116.8 lbs						
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 on AC / Battery side	Transformerless / Transformer						
Max. operating altitude (m)	4000, > 2000 Derating						
Noise emission (dB)	< 50						
Standards & Certification							
EN 62109 / EN 61000, IEC 61683, EN 50549-10, PTPIREE TypeA, G99, G100, IEC62116, IEC61727, MEA/PEA, CEI 0-21, INMETRO Portaria 140/515, DIN VDE V 0124-100/VDE-AR-N 4105							

HYBRID SERIES

TriP2-HB-3P
6-30K
(Three-Phase)

High Voltage



45kW

Max. PV input power



30kW

Max. UPS output power



100~800V

Battery working voltage

- ◆ 150% unbalanced output, Max.10kW per phase
- ◆ Supports up to 10 units in parallel
- ◆ Supports independent grid export control for each phase
- ◆ Dedicated port for Generator, Smart load and AC coupling

Model	TriP2-HB-3P 6K	TriP2-HB-3P 8K	TriP2-HB-3P 10K	TriP2-HB-3P 12K	TriP2-HB-3P 15K	TriP2-HB-3P 20K	TriP2-HB-3P 25K	TriP2-HB-3P 30K
Input (PV DC)								
Max. PV input power (W)	9000	12000	15000	18000	22500	30000	37500	45000
Rated PV input voltage (V)	690							
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 / 40 / 40				
Max. PV short-circuit current input per MPPT	25 / 25 (A:1 / B:1)			50 / 50 / 50 (A:2 / B:2 / C:2)				
Battery								
Compatible battery type	Lithium-ion / Lead-Acid							
Rated battery voltage (V)	400							
Max. charging / discharging current (A)	50			75				
Max. charging / discharging power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Force wake up battery from PV function	YES							
Grid								
Rated AC voltage (V)	3L / N / PE, 220 / 380 Vac, 230 / 400 Vac							
Rated AC frequency (Hz)	50 / 60							
Rated AC output current (A)	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	22.7 / 21.7	30.3 / 29	37.9 / 36.2	45.5 / 43.5
Rated AC output power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Max. AC input current (A)	13.1	17.4	21.8	26.1	32.6	43.5	54.3	65.3
Max. output apparent power (VA)	6000	8000	10000	12000	15000	20000	25000	30000
PF	0.99 (Adjustable 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, 220 / 380 Vac, 230 / 400 Vac							
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	20000	25000	30000
Rated output voltage (V)	3L / N / PE, 220 / 380 Vac, 230 / 400 Vac							
Rated output current (A)	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	22.7 / 21.7	30.3 / 29	37.9 / 36.2	45.5 / 43.5
Rated output frequency (Hz)	50 / 60							
Surge power, duration	1.5 × rated power for 5min							
Switching time	≤ 10ms							
Wave form	Sine wave							
THDV	< 3%							
Efficiency								
MPPT efficiency	99.0%							
EU efficiency	96.8%							
Max. efficiency	97.4%							
Max. charge / discharge efficiency	97.2%							
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 × H × D)	480 × 703 × 258mm / 18.9 × 27.7 × 10.2 in							
Weight	TBD			50 kg / 110.2 lbs				
Ingress 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 / Wifi / CAN							
Warranty	5 / 10 years							
Cooling method	Natural cooling			Smart cooling				
Topology	Transformerless							
Max. operating altitude (m)	4000, > 2000 Derating							
Noise emission (dB)	< 50							
Standards & Certification								

EN 62109-1/-2, EN 50549-1/-10, CEI 0-21:2022 (V2:2024-01), PTPIREE TypeA, G99, G100, IEC62116, IEC61727, MEA/PEA, IEC61683, CEI 0-16

ECO HYBRID/OFF-GRID

OUR CORE FEATURES

Up to 16 Units in Parallel

Seamless expansion for larger energy demands—
ideal for homes, farms, and small commercial projects.

Flexible Three-Phase System via Parallel Connection

Easily configure multiple units to form a three-phase system, adapting to various power needs with dynamic load balancing.

Dedicated Generator Input

Smart backup power—connect generators for extra energy security in any situation.

500V High Voltage PV Input

More solar, more power! Maximize efficiency and reduce energy loss with high-voltage PV integration.

Scalable Battery Compatibility

Supports various battery types and capacities, giving you the freedom to build a system that fits your needs.

OTA (Over-the-Air) Remote Firmware Updates

Keep your system up to date effortlessly with wireless firmware upgrades, ensuring optimal performance and new feature enhancements without on-site service.



- GETA-LB-EU 1.5-6K
- SNA 3-6K
- SNA-EU-LT 4.5K
- SNA PRO-EU 3-6.5K
- SNA-EU 12-14K
- SNA2-EU-LT 10-14K

OFF-GRID

GETA-LB-EU
1.5-6K
(Single-Phase)



500V
Max. PV input voltage



24/7
Real-time monitoring



110%
Continuous output capability

- ◆ Supports 12V, 24V and 48V battery systems
- ◆ Battery activation via PV and utility grid

- ◆ EQ for improved battery performance and lifespan
- ◆ Dual outputs for intelligent load management

Model	GETA-LB-EU 1.5K/12V	GETA-LB-EU 2.5K/12V	GETA-LB-EU 3.6K/24V	GETA-LB-EU 3.6K	GETA-LB-EU 6K
Input (PV DC)					
Max. PV array power (W)	2000	3000	4000	4000	9600
Number of independent MPPT inputs	1				2 / (1:1)
Max. PV input voltage (V)	500				
MPPT voltage range (V)	30 ~ 440		55 ~ 440		60 ~ 440
Start-up voltage (V)	65				65
Max. PV input current per MPPT (A)	18				18 / 18
Max. Short-circuit current per MPPT (A)	22.5				22.5 / 22.5
Battery					
Compatible battery type	Lithium-ion / Lead-acid				
Rated battery voltage (V)	12	12	24	48	48
Max. AC charge current (A)	100	100	100	70	100
Max. PV charge current (A)	120	120	120	75	120
Max. PV+AC charge current (A)	120	120	120	75	120
Max. discharging current (A)	140	140	140	75	140
Force wake up battery from PV&Grid function	YES				
Grid					
Rated AC voltage (V)	230				
AC voltage range (V)	170-280VAC (For Personal Computer); 90-280VAC (For Home Appliances)				
Rated AC frequency (Hz)	50 / 60				
Rated AC input current (A)	6.5	10.8	15.7	15.7	26.1
Max. AC input power (W)	3000	5000	7200	7200	11500
PF	0.99				
THDI	< 3%				
GEN					
Rated GEN voltage (V)	/		230		
Rated GEN frequency (Hz)	/		50 / 60		
Rated GEN input current (A)	/		15.7	15.7	26.1
Rated GEN input power (W)	/		3600	3600	6000
UPS					
Rated output power (W)	1500	1500 (BAT) / 2500 (PV+BAT)	3600	3600	6000
Rated output voltage (V)	220 / 230VAC + 5%				
Rated output current (A)	6.5	6.5 (BAT) / 10.8 (PV+BAT)	15.7	15.7	26.1
Rated output frequency (Hz)	50 / 60				
Output port	Single output		Dual outputs		
Surge power, duration	2 × rated power for 2s				
Switching time (UPS)	10ms				
Wave form	Sine wave				
THDV	< 3%				
Overload protection	5s@≥150% load; 10s@110%~150% load				
Efficiency					
MPPT efficiency	99.0%				
Max. efficiency	93.0%				
Max. charge efficiency	93.0%				
Max. discharge efficiency	89.0%		91.0%		93.0%
Protection					
Battery reverse polarity protection	/		YES		
Over current / voltage protection	YES				
AC short-circuit current protection	YES				
DC surge protection	Type III				
AC surge protection	Type III				
General					
Dimensions (W × H × D)	304.4×320×101 mm 12.0×12.6×4.0 in		307×418×112 mm 12.1×16.5×4.4 in		307×482×124 mm 12.1×18.98×4.88 in
Weight	5.4 kg / 12 lbs		7.33 kg / 16.16 lbs		10 kg / 22.05 lbs
Ingress protection rating	IP21				
Relative humidity	5% ~ 95%				
Operating environment temperature range (°C)	-10 ~ 45 (> 40 °C Derating)				
Storage temperature range (°C)	-15 ~ 60				
Display & Communication interface	LCD + LED; WIFI				
Warranty	1.5 years				
Cooling method	Smart Cooling				
Max. operating altitude (m)	4000, > 2000 Derating				
Standard & Certification					
EN62109-1/-2, EN 61000					

ECO HYBRID *

SNA 3-6K
(Single-Phase)



9.6kW

Max. PV input power



140A

Max. charge/discharge current



100~500V

PV input voltage

- ◆ Off-grid seamless switching
- ◆ 24/7 real-time monitoring via LUX app
- ◆ Supports up to 16 units in parallel
- ◆ Dedicated port for Generator, Smart load and AC coupling

Model	SNA 3K		SNA 4K		SNA 5K		SNA 6K	
Input (PV DC)								
Max. PV input power (W)	6000 (3000/3000)		8000 (4000/4000)		8000 (4000/4000)		9600 (4800/4800)	
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)	70/70	90/90		110/110		140/140		
Max. charging/discharging power (W)	3000	4000		5000		6000		
Force wake up battery from PV&Grid function	YES							
Grid								
Rated AC voltage (V)	230							
Rated AC frequency (Hz)	50 / 60							
Rated AC output current (A)	13.04	17.39		21.74		26.09		
Rated AC output power (W)	3000	4000		5000		6000		
Max. AC input power (W)	8000						9000	
PF	0.99							
THDI	< 5%							
Max. continuous AC passthrough current (A)	35							40
GEN								
Rated GEN voltage (V)	220 / 230 / 240							
Rated GEN frequency (Hz)	50 / 60							
Rated GEN input current (A)	32							
Rated GEN input power (W)	7370							
UPS								
Rated output power (W)	3000	4000		5000		6000		
Rated output voltage (V)	230							
Rated output current (A)	13.04	17.39		21.74		26.09		
Rated output frequency (Hz)	50 / 60							
Surge power, duration	2 × rated power for 5s							
Switching time	<7ms@Single / <20ms@Parallel							
Wave form	Sine wave							
THDV	< 3%							
Efficiency								
MPPT efficiency	99.9%							
EU efficiency	93.5%							
Max. efficiency	95.0%							
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							
General								
Dimensions (W × H × D)	330 × 505 × 135 mm / 13 × 19.9 × 5.3 in							
Weight	14.5 kg / 32 lbs							
Ingress protection rating	IP20							
Operating environment 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 on AC / Battery side	Transformerless / Transformer							
Max. operating altitude (m)	4000, > 2000 Derating							
Noise emission (dB)	< 50							
Standards & Certification								

ECO HYBRID*

SNA-EU-LT
4.5K
(Single-Phase)



500V

Max. PV input voltage



6.5kW

Max. PV input power



110%

Continuous output
capability

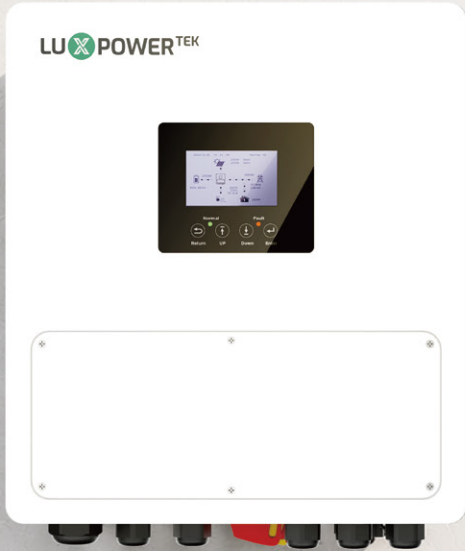
- ◆ 24/7 remote monitoring via App
- ◆ EQ for improved battery performance and lifespan

- ◆ Smart dual-output load management
- ◆ Flexible battery activation & energy management

Model	SNA-EU-LT 4.5K/24V
Input (PV DC)	
Max. PV array power (W)	6500
Number of independent MPPT inputs	1
Max. PV input voltage (V)	500
MPPT voltage range (V)	60 ~ 440
Start-up voltage (V)	65
Max. PV input current per MPPT (A)	27
Max. Short-circuit current per MPPT (A)	35
Battery	
Compatible battery type	Lithium-ion / Lead-acid
Rated battery voltage (V)	24
Max. AC charge current (A)	140
Max. PV charge current (A)	140
Max. PV+AC charge current (A)	140
Max. discharging current (A)	160
Force wake up battery from PV&Grid function	YES
Grid	
Rated AC voltage (V)	230
Rated AC frequency (Hz)	50 / 60
AC voltage range (V)	170-280VAC(For Personal Computer); 90-280VAC(For Home Appliances)
Rated AC input current (A)	19.6
Rated AC input power (W)	9000
PF	0.99
THDI	< 3%
Max. continuous AC passthrough current (A)	50
GEN	
Rated GEN voltage (V)	230
Rated GEN frequency (Hz)	50 / 60
Rated GEN input current (A)	19.7
Rated GEN input power (W)	4500
UPS	
Rated output power (W)	4500
Rated output voltage (V)	220 / 230VAC + 5%
Rated output current (A)	19.6
Rated output frequency (Hz)	50 / 60
Output port	Dual outputs
Surge power, duration	2 × rated power for 2s
Switching time (UPS)	10ms
Wave form	Sine wave
THDV	< 3%
Overload protection	5s@≥150% load; 10s@110%~150% load
Efficiency	
MPPT efficiency	99.0%
Max. efficiency	97.1%
Max. charge efficiency	93.0%
Max. discharge efficiency	93.4%
Protection	
Battery reverse polarity protection	YES
Over current / voltage protection	YES
AC short-circuit current protection	YES
DC surge protection	Type III
AC surge protection	Type III
General	
Dimensions (W × H × D)	307×482×124 mm / 12.09×18.98×4.88 in
Weight	8.9kg / 19.6 lbs
Ingress protection rating	IP21
Relative humidity	5% ~ 95%
Operating environment temperature range (°C)	-10 ~ 45 (> 40 °C Derating)
Storage temperature range (°C)	-15 ~ 60
Display & Communication interface	LCD+LED; WIFI
Warranty	2 years
Topology on AC / Battery side	Transformerless / Transformer
Cooling method	Smart Cooling
Max. operating altitude (m)	4000, > 2000 Derating

ECO HYBRID*

SNA PRO-EU
3-6.5K
(Single-Phase)



12kW

Max. PV input power



135/140A

Max. charge/discharge current



IP66

Protection rating

- ◆ Off-grid seamless switching, auto transition for uninterrupted power
- ◆ Remote configuration and real-time performance tracking

- ◆ Supports up to 16 units for scalable energy solutions
- ◆ Dedicated port for Generator or Smart load management

Model	SNA PRO-EU 3K		SNA PRO-EU 4K	SNA PRO-EU 5K	SNA PRO-EU 6K	SNA PRO-EU 6.5K
Input (PV DC)						
Max. PV array power (W)	7500(3750/3750)		10000(5000/5000)	12500(6250/6250)	15000(7500/7500)	
Max. PV input power (W)	6000(3000/3000)		8000(4000/4000)	10000(5000/5000)	12000(6000/6000)	
Number of independent MPPT inputs	2 / (1:1)					
Max. PV input voltage (V)	500					
MPPT voltage range (V)	80 ~ 400					
Start-up voltage (V)	80					
Max. PV input current per MPPT (A)	20 / 20					
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)	40 ~ 60					
Max. charging / discharging current (A)	70	90	110	135 / 140	135 / 140	
Max. charging / discharging power (W)	3000	4000	5000	6000	6500	
Force wake up battery from PV&Grid&GEN function	YES					
Grid						
Rated AC voltage (V)	230					
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	13	17.5	22	26.5	28.2	
Rated AC output power (W)	3000	4000	5000	6000	6500	
Max. AC input power (W)	6000	8000	8000	9000	9000	
PF	0.99					
THDI	< 5%					
Max. continuous AC passthrough current (A)	40			60		
GEN						
Rated GEN voltage (V)	230					
Rated GEN frequency (Hz)	50 / 60					
Rated GEN input current (A)	13	32				
Rated GEN input power (W)	3000	7370				
UPS						
Rated output power (W)	3000	4000	5000	6000	6500	
Rated output voltage (V)	230 / 120	230				
Rated output current (A)	13	17.5	22	26.5	28.2	
Rated output frequency (Hz)	50 / 60					
Surge power, duration	6000W, 5s	8000W, 5s	10000W, 5s	12000W, 5s	13000W, 5s	
Switching time	< 10ms @ Single; < 20ms @ Parallel					
Wave form	Sine wave					
Load capacity of Motor	3HP		4HP	5HP		
Overload capacity	10s@110% ~ 150 % load; 5s@150% ~ 200% load					
THDV	< 3%					
Efficiency						
MPPT efficiency	99.0%					
Max. efficiency	96.9%					
EU efficiency	96.9%					
Max. charge efficiency	97.5%					
Max. discharge efficiency	95.5%					
Protection						
Over current / voltage protection	YES					
Anti-islanding protection	YES					
AC short-circuit current protection	YES					
Grid monitoring	YES					
Residual current monitoring	YES					
AC/DC surge protection	Type II					
PV switch	YES					
Arc fault circuit interrupter	Optional					
General						
Dimensions (W × H × D)	384 × 434 × 187 mm / 15.12 × 17.09 × 7.36 in					
Weight	16.95 kg / 37.38 lbs					
Ingress protection rating	IP66					
Operating environment temperature range (°C)	-25 ~ 60, >45°C derating					
Storage temperature range (°C)	-15 ~ 60					
Relative humidity	5% ~ 95%					
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN					
Warranty	5 years					
Cooling method	Smart Cooling					
Topology on AC / Battery side	Transformerless / Transformer					
Max. operating altitude (m)	4000, >2000 Power derating					
Noise emission (dB)	< 40					
Standards & Certification						
EN61000/EN62109-1/-2, NRS097, MEA/PEA, IEC62116, IEC61727, INMETRO Portaria 140/515						

ECO HYBRID*

SNA-EU
12-14K
(Single-Phase)



24kW

Max. PV input power



270A

Max. charge/discharge current



16

Units parallel

- ◆ 12kW off-grid output for high-demand applications
- ◆ Integrated load and battery breaker design

- ◆ Dual AC output ports for flexible load connection
- ◆ GEN port with auto-start and boost function

Model	SNA-EU 12K		SNA-EU 14K
Input (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)	500		
MPPT voltage range (V)	120 ~ 440		
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	270	
Max. charging / discharging power (W)	12000	13000	
Force wake up battery from PV/Grid/GEN function	YES		
Grid			
Rated AC voltage (V)	230		
AC start-up voltage	90		
Acceptable input voltage range (V)	130 ~ 280		
Rated AC frequency (Hz)	50 / 60		
Rated AC input current (A)	100		
Rated AC input power (W)	24000		
PF	0.99		
THDI	< 5%		
Max. continuous AC passthrough current (A)	100		
GEN			
Rated GEN voltage (V)	230		
Rated GEN frequency (Hz)	50 / 60		
Rated GEN input current (A)	65		
Rated GEN input power (W)	15000		
UPS			
Rated output power (W)	12000	14000@230V (with PV + Battery)	
Rated output voltage (V)	230		
Rated output current (A)	53	61	
Rated output frequency (Hz)	50 / 60		
Switching time (UPS)	< 10ms		
Wave form	Sine wave		
THDV	< 3%		
Overload protection	5s @ ≥150% of rated output power / 10s @ 110%~150% of rated output power		
Efficiency			
Max. 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		
AC short-circuit current protection (Y/N)	YES		
Grid monitoring (Y/N)	YES		
DC switch (Y/N)	YES		
DC / AC surge protection	Type III		
Battery reverse polarity protection (Y/N)	YES		
General			
Dimensions (W × H × D)	530 × 830 × 150 mm / 17.72 × 25.59 × 5.9 in		
Weight	43.5 kg / 95.9 lbs		
Ingress protection rating	IP20		
Operating environment temperature range (°C)	0 ~ 45		
Storage temperature range (°C)	-15 ~ 60		
Relative humidity	5% ~ 95%		
Display & Communication interface	LCD + RGB, RS485 / Wifi / CAN		
Warranty	2 years		
Cooling method	Smart cooling		
Topology on AC / Battery side	Transformerless / Transformer		
Max. operating altitude (m)	4000, > 2000 Derating		
Noise emission (dB)	< 55		
Standard & Certification			

ECO HYBRID*

SNA2-EU-LT
10-14K
(Single-Phase)



24kW
Max. PV input
power



270A
Max. charge/discharge
current



16
Units parallel

- ◆ Lite Design for Easier Installation
- ◆ Dedicated GEN Port with Smart Load Management

- ◆ Support Hybrid Working Modes
- ◆ Intelligent Energy Optimization for Faster ROI

Model	SNA2-EU-LT 10K	SNA2-EU-LT 12K	SNA2-EU-LT 14K
Input (PV DC)			
Max. PV input power (W)	18000 (9000/9000)		24000 (12000/12000)
Rated PV input voltage (V)	320		
Number of independent MPPT inputs	2 / (2:2)		
Max. PV input voltage (V)	500		
MPPT voltage range (V)	120 ~ 440		
Start-up voltage (V)	100		
Max. PV input current per MPPT (A)	26 / 26	35 / 35	
Max. PV short-circuit current input per MPPT (A)	32.5 / 32.5	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)	230	270	
Max. charging / discharging power (W)	10000	13000	
Force wake up battery from PV/Grid/GEN function	YES		
Grid			
Rated AC voltage (V)	230		
AC start-up Voltage	90		
Acceptable input voltage range (V)	130 ~ 280		
Rated AC frequency (Hz)	50 / 60		
Rated AC input current (A)	100		
Rated AC input power (W)	24000		
PF	0.99		
THDI	< 5%		
Max. continuous AC passthrough current (A)	100		
GEN			
Rated GEN voltage (V)	230		
Rated GEN frequency (Hz)	50 / 60		
Rated GEN input current (A)	65		
Rated GEN input power (W)	15000		
UPS			
Rated output power (W)	10000	12000	14000 (with PV + Battery)
Rated output voltage (V)	230		
Rated output current (A)	43.5	52	61
Rated output frequency (Hz)	50 / 60		
Switching time (UPS)	< 10ms		
Wave form	Sine wave		
THDV	< 3%		
Overload protection	5s @ ≥150% of rated output power 10s @110%-150% of rated output power		10s@≥118% of rated output power
Efficiency			
Max. MPPT efficiency	99.0%		
Max. efficiency	93.5%		
Max. charge / discharge efficiency	93.0%		
Protection			
Over current / voltage protection (Y/N)	YES		
AC short-circuit current protection (Y/N)	YES		
Grid monitoring (Y/N)	YES		
DC / AC surge protection	Type III		
General			
Dimensions (W × H × D)	520 × 580 × 163 mm / 20.5 × 22.8 × 6.4 in		
Weight	32.5 kg / 71.7 lbs		
Ingress protection rating	IP20		
Operating environment temperature range (°C)	0 ~ 45		
Storage temperature range (°C)	-15 ~ 60		
Relative humidity	5% ~ 95%		
Display & Communication interface	LCD + RGB, RS485 / Wifi / CAN		
Warranty	2 years		
Cooling method	Smart cooling		
Topology on AC / Battery side	Transformerless / Transformer		
Max. operating altitude (m)	4000, > 2000 Derating		
Noise emission (dB)	< 55		
Standard & Certification			

NRS 097, EN 62109-1/-2, IEC62116, IEC61727, INMETRO Portaria 140/515

ALL-IN-ONE SERIES

Your Home, Powered by Intelligence.

Modular · Intelligent · Safe



● VitaBank 1000

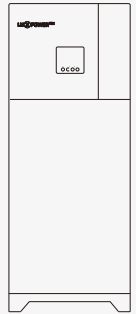
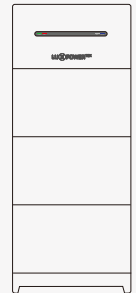


● GENOVA



● Eco Beast Pro

ALL-IN-ONE PORTFOLIO

Model	Power	Battery capacity
 VitaBank 1000	500 W	1000 Wh
 Eco Beast Pro	6.5 kW	10/16 kWh
 GENOVA	6/8 kW	10 kWh/module



True Integration.
Scalable Energy.



Seamless 7ms Backup.
Power Uninterrupted.



Smart Cloud Monitoring.
Real-Time Diagnostics.

SOLAR GENERATOR

VitaBank 1000
(Single-Phase)

 **800W**
PV input power

 **500W**
AC output power

 **1000Wh**
Battery capacity



- ◆ True Plug & Play – No installation or wiring required.
 - ◆ Reliable Home Backup – Keep essential appliances running during outages.
- ◆ Solar Ready – Recharge from solar panels, utility power or a generator.
 - ◆ Quiet & Maintenance-Free – Clean LiFePO4 power with minimal noise.

Inverter Module		VitaBank 1000
Inverter / Charger		
Rated AC output power (W)		500
Output voltage waveform		Pure sine wave
Output voltage (V)		230
Low DC warning point (V)		2.9
Low DC cut-off voltage (V)		2.85
Low DC warning return voltage (V)		2.95
Charging power (Utility + Solar) (W)		768
Bulk charging voltage (V)		2.8~3.5
Float charging voltage (V)		≥3.5
Solar Input		
Rated PV voltage (V)		32
PV MPPT voltage range (V)		10~55
Number of independent MPPT inputs		1 (1:2 PV parallel input)
Max. PV array open circuit voltage (V)		60
Solar charging power (W)		800
Max. PV input current per MPPT (A)		25 (12.5 / 12.5)
Max. PV short-circuit current input per MPPT (A)		30 (15 / 15)
AC Input		
Rated input voltage (V)		230
Low loss voltage		170Vac±7V(UPS); 90Vac±7V(Appliances)
Low loss return voltage		180Vac±7V(UPS); 100Vac±7V(Appliances)
High loss voltage		280Vac±7V
High loss return voltage		270Vac±7V
AC input voltage range (V)		90~280
Rated input frequency		45~65
AC charging power (W)		500
Rated AC input current (A)		4.5
Rated AC input power (W)		1000
Lithium Iron Battery		
Rated energy (Wh)		1004
Rated battery voltage (V)		3.2
Rated capacity (Ah)		314
Max. charge current (A)		240
Max. discharge current (A)		314
Operation voltage range (V)		2.5~3.65
Operation temperature (°C)		0~50 (Charge) / -20~55 (Discharge)
Cycle life		3000
DC Output		
DC output socket		1 × USB-A (5V/3A) 1 × USB-C (5V/3A)
Display Function		
LED indicator		4 pcs SOC indicators, 1 pcs AC working status indicator and 1 pcs DC working status indicator
Protection		
PV reverse polarity protection		YES
PV float charge protection		YES
Battery over-temperature protection		YES
System over-temperature protection		YES
Inverter overload protection		YES
Bypass overload protection		YES
General		
Dimensions (W × H × D mm)		300 × 205 × 180
Weight (kg)		10.6Kg
Ingress protection rating		IP20
Warranty		1.5 Years
Cooling method		Smart cooling
Noise (dB)		45~55
Working temperature (°C)		0~45
Humidity		Operating: 10%~ 90% relative humidity (non-condensing) Storage: 5% ~ 95% relative humidity (non-condensing)
Max. operating altitude (m)		3000
DC connection (VP-D4/MC4 (Optional))		XT90 ×1
AC connector (AC Input)		IEC ×1
AC connector (AC Output)		Universal ×2
Standards & Certification		
IEC 62109-1/-2, UN38.3		

ALL-IN-ONE

Eco Beast Pro (10kWh / 16kWh optional)
(Single-Phase)



9.6/6.5kW

PV input/AC Output power



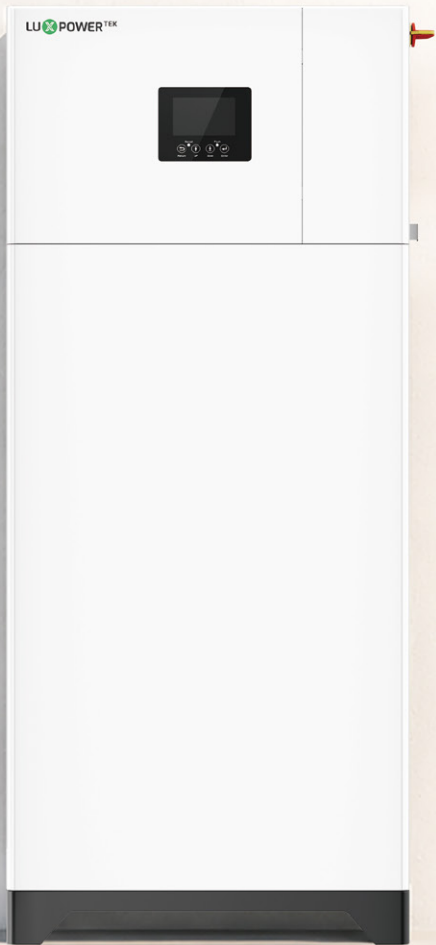
140A

Max. Charge/discharge current



<7ms

Seamless switching



- ◆ 2× surge power (5s)
- ◆ Pure sine wave, stable backup power
- ◆ PV/Grid/Generator input
- ◆ 10 kWh/16 kWh integrated battery options
- ◆ 93% system efficiency
- ◆ AC surge protection & grid monitoring
- ◆ Full system visibility in real time
- ◆ Remote control and upgrade via LuxCloud

INVERTER MODULE		Eco Beast Pro
Input (PV DC)		
Max. PV input power (W)		9600 (4800 / 4800)
Rated PV input voltage (V)		320
Number of independent MPPT inputs		2
Max. PV input voltage (V)		500
MPPT voltage range (V)		120 ~ 400
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 charging current (A)		140
AC Output (Backup)		
Output voltage waveform		Pure sine wave
Output voltage regulation (V)		208 / 220 / 230 / 240 ± 5%
Output frequency (Hz)		50 / 60
Rated output power (W)		6500
Rated output current (A)		28.3
Switching time		<7ms@Single ; <20ms@Parallel
Overload protection		5s@≥150% load ; 10s@110%~150% load
Surge power		2 × rated power for 5s
THDV		< 3%
AC Input		
Rated input voltage (V)		230
Rated input frequency (Hz)		50 / 60
Max. AC input current (A)		45
Max. AC input power (W)		9000
Max. AC charging current (A)		140
Max. continuous AC passthrough current (A)		40
THDI		< 5%
GEN		
Rated GEN voltage (V)		230
Rated GEN frequency (Hz)		50 / 60
Rated GEN input current (A)		32
Rated GEN input power (W)		7370
Efficiency		
Max. efficiency		99.9%
MPPT efficiency		93.0%
Max. charge / discharge efficiency		93.0%
Protection		
Grid monitoring		YES
AC surge protection		Type III
General Specifications		
Weight		16.5 kg / 36.4 lbs
Dimension (W × H × D)		580 × 350 × 175 mm / 22.8 × 13.8 × 6.89 in
Base weight		2.5kg / 5.51lbs
Base dimension (W × H × D)		580 × 80 × 175 mm / 22.8 × 3.2 × 6.9 in
Ingress protection rating		IP20
Display & Communication interface		LCD + LED, RS485 / Wi-Fi / CAN
Cooling method		Smart cooling
Topology on AC / Battery side		Transformerless / Transformer
Warranty		3 years (Inverter Module) ; 5 years(Battery Module)
Noise emission (dB)		< 50
Operating temperature range (°C)		0 ~ 50
Storage temperature (°C)		-15 ~ 60
Humidity		5% to 95% Relative Humidity (Non-condensing)
Max. operating altitude (m)		4000, > 2000 Derating
Standards & Certification		
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1		

BATTERY MODULE	Beast 10	Beast 16
Battery module voltage (V)	45.6-58.4	38.4-60
Number of modules per inverter		1
Battery energy (kWh)	10.5	16
Rated voltage (V)		51.2
Rated capacity (Ah)	205	314
Battery type		Lithium-ion
Max. discharging current (A)		140
Max. charging current (A)		140
Battery module weight	TBD	98 kg / 216.1 lbs
Battery module dimension (W × H × D)		580×950×175 mm / 22.8×37.4×6.89 in

ALL-IN-ONE

GENOVA
(Single-Phase)

HYBRID INVERTER

6kW/8kW

- High efficiency inverter
- Pure sine wave output
- <20ms auto switchover

MODULAR BATTERY

10kWh per module

- Safe LiFePO battery
- Long cycle life
- Easy to expand

- ◆ Wide 150-425V MPPT range for flexible PV design
- ◆ Built-in isolation transformer for enhanced safety
- ◆ Compatible with Gateway-based backup and smart loads
- ◆ Remote monitoring via RS485 /Wi-Fi/ CAN

INVERTER MODULE	GENOVA-EU 6K		GENOVA-EU 8K
Input (PV DC)			
Max. PV input power (W)	12000		
Rated PV input voltage (V)	360		
Number of independent MPPT inputs	3 (1:1:1)		
Max. PV input voltage (V)	530		
MPPT voltage range (V)	150 ~ 425		
Start-up voltage (V)	140		
Max. PV input current per MPPT (A)	20 / 20 / 20		
Max. PV short-circuit current input per MPPT (A)	32 / 32 / 32		
AC Output (on-grid)			
Rated output power (W)	6000	8000	
Rated output current (A)	26.1	34.8	
Rated output voltage (V)	220 / 230		
Rated input frequency (Hz)	50 / 60		
PF	0.99		
THDI	< 3%		
Battery Connection			
Battery module model	HSS-B Series		
Battery module voltage (V)	40 ~ 60		
Number of modules per inverter	1 ~ 4		
Max. charging / discharging current (A)	125	180	
Max. charging / discharging power (W)	6000	8000	
Efficiency			
Max. efficiency	96.0%		
EU efficiency	95.0%		
Max. charge / discharge efficiency	95.0%		
Protection			
Grid monitoring	YES		
AC surge protection	Type II		
Over current / voltage protection	YES		
Anti-islanding protection	YES		
AC Short-circuit current protection	YES		
Leakage current protection	YES		
AFCI	Optional		
Ground fault monitoring	YES		
Grid monitoring	YES		
PV switch	YES		
General Specifications			
Weight	TBD		
Dimension (W × H × D)	TBD		
Ingress protection rating	IP66		
Display & Communication interface	LED, RS485 / Wi-Fi / CAN		
Cooling method	Smart cooling		
Topology on AC / Battery side	Transformerless / Transformer		
Noise emission (dB)	< 50		
Operating temperature range (°C)	-25 ~ 60 (>45 derating)		
Storage temperature (°C)	-40 ~ 65		
Relative humidity	0 ~ 95%		
Max. operating altitude (m)	4000, > 2000 Derating		

BATTERY MODULE	HSS-B10S
Battery energy (kWh)	10
Rated voltage (V)	51.2
Rated capacity (Ah)	205
Battery type	Lithium-ion
Max. charging / discharging current (A)	140
IP rating	IP65
Dimension (W × H × D)	TBD
Net weight	TBD

RETROFIT

RETROFIT YOUR SOLAR SYSTEM

- AC Retrofit
 - LXP 3600 ACS
- DC Retrofit
 - LSP 100K

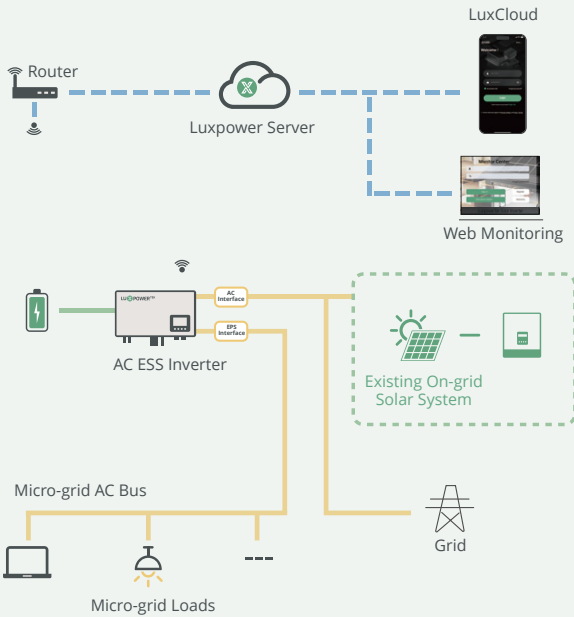


One Step to Retrofit Your Solar System

01 AC Retrofit

Retrofit an existing on-grid solar system to a battery storage system.

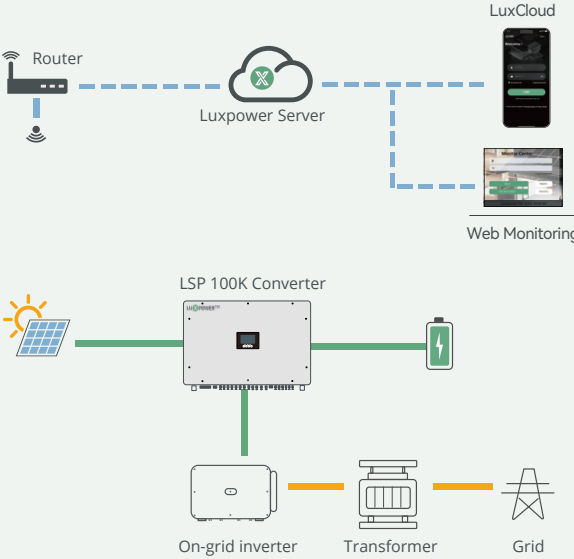
It couldn't be easier than installing an LXP ACS series inverter coupled on AC side with a battery pack. Installation of a Lux ACS system should not affect existing solar systems or feed in tariffs.



02 DC Retrofit

To retrofit an existing PV system by incorporating DC side coupling to create an energy storage system. With this enhanced storage system:

It becomes compatible with batteries, enabling the addition of more PV panels, while also allowing the PV system to operate on a predefined schedule; By setting the charging/ discharging timeline of the battery, it achieves an equivalent/similar effect as the Peak Shaving operating mode.



AC RETROFIT

LXP 3600 ACS
(Single-Phase)



70A

Max. charge/discharge current



3.6kW

Output power



10

Units parallel

- ◆ On/off grid seamless switching
- ◆ Retrofit on-grid/micro-grid systems for energy storage
- ◆ Octopus smart time of use and weather optimize
- ◆ Separate EPS port for flexible load management

NOTE:
Intelligent charge feature is only available in the UK for now, supporting regional customization

Model	LXP 3600 ACS
Battery	
Compatible battery type	Lithium-ion / Lead-Acid
Rated battery voltage (V)	48
Battery voltage range (V)	40 ~ 60
Max. charging voltage (V)	60
Max. charging / discharging current (A)	70
Max. charging / discharging power (W)	3600
Force wake up battery from Grid function(Y/N)	YES
Grid	
Rated AC voltage (V)	230
Rated AC frequency (Hz)	50 / 60
Rated AC output current (A)	16
Rated AC output power (W)	3600
Max. AC input current (A)	26
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI	< 3%
Max. continuous AC passthrough current (A)	40
UPS	
Rated output power (W)	3600
Rated output voltage (V)	230
Rated output current (A)	16
Rated output frequency (Hz)	50 / 60
Surge power, duration	4500W, 30s
Switching time	20ms
Wave form	Sine wave
THDV	< 3%
Parallel capacity	10
Efficiency	
Max. efficiency	97.3%
Max. charge / discharge efficiency	94.5%
Protection	
Over current / voltage protection	YES
Anti-islanding protection	YES
AC short-circuit current protection	YES
Grid monitoring	YES
AC surge protection	Type III
General	
Dimensions (W × H × D)	650 × 440 × 220 mm / 25.6 × 17.3 × 8.6 in
Weight	15.6 kg / 34.4 lbs
Ingress protection rating	IP65
Operating environment temperature range (°C)	-25 ~ 60
Storage temperature range (°C)	-40 ~ 65
Relative humidity	0 ~ 95%
Display & Communication interface	LCD, RS485 / Wi-Fi / CAN
Warranty	5 years
Cooling method	Natural Cooling
Topology	Transformerless
Max. operating altitude (m)	2000
Noise emission (db)	< 25
AC connector	YES

Standards & Certification
IEC62109-1, IEC62040, EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011+ AC:2012, EN 61000-3-2:2014, EN 61000-3-3:2013, VDE-AR-N 4105
EN50549-1/-10, G98, G99/G100

DC RETROFIT

LSP 100K



100/200kW

Max. PV output/input power



24/12

MPPT Input/output



24/7

Real-time monitoring

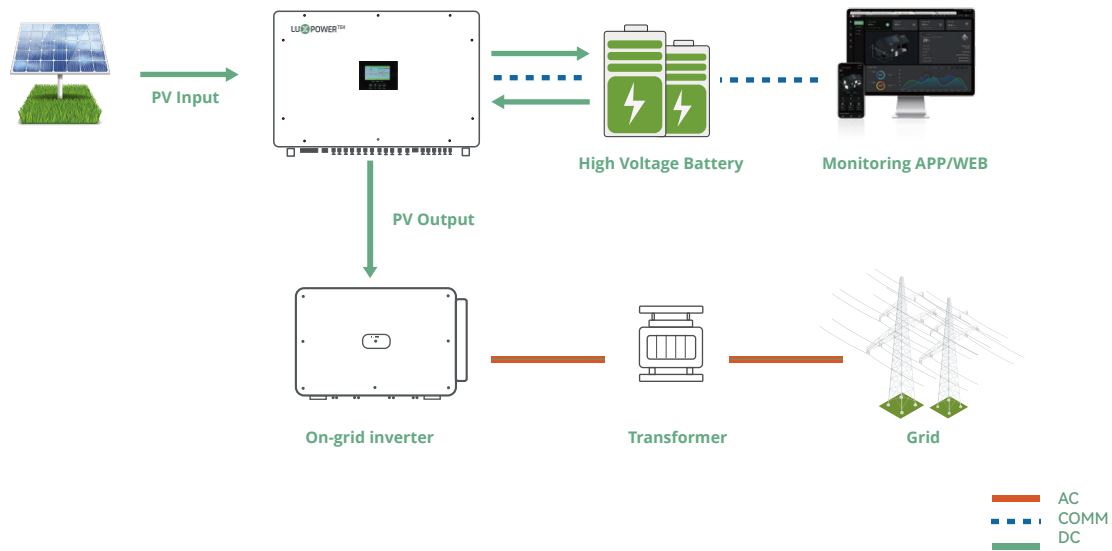


- ◆ Advanced power management logic
- ◆ Retrofit on-grid system for energy storage

- ◆ IP65 for indoor/outdoor installation
- ◆ Colorful touch LCD

Model	LSP 100K	
PV Input		
Max. input power (kW)	200	
Max. input voltage (V)	1100	
Rated PV input voltage (V)	630	
MPPT voltage range (V)	300 ~ 900	300 ~ 1000
Start-up voltage (V)	330	
Max. short-circuit per MPPT (A)	33	
Max. current per MPPT input (A)	26	
Number of MPPT inputs	12	
Number of input strings	24	
Battery		
Type	Lithium-ion	
Max. charge / discharge power (kW)	100	
Voltage range (V)	300 ~ 850*	300 ~ 700*
Max. charge / discharge current (A)	200	
Max. charge / discharge efficiency	98.1%	
PV Output		
DC-DC output rated power (kW)	100	
Normal output voltage (V)	630	
Output voltage range (V)	500 ~ 1000	
Max. output current (A)	20	
Output strings	12	
Output trackers	12	
Protection		
DC reverse-polarity protection	Yes	
DC surge protection	Type III	
General		
Dimensions (W × H × D)	1015 × 680 × 310 mm / 39.9 × 26.8 × 12 in	
Weight (with mounting plate)	120 kg / 264.5 lbs	
Protection degree rating	IP65	
Topology	Transformerless	
Cooling method	Natural Cooling	
Relative humidity	0% ~ 100%	
Operating environment temperature range (°C)	-25 ~ 60	
Connector (PV input and output)	MC4	
Battery connector	Screw	
Max. operating altitude (m)	4000	
Warranty	5 years	
Display	Touch color screen, LED + LCD	
Communication interface	RS485 / CAN / Wi-Fi	
Standards & Certifications		

*Note: The 300~700V battery voltage range corresponds to a 300~1000V PV input;
The 300~850V battery voltage range corresponds to a 300~900V PV input



GATEWAY

GO-LINK
(Single-Phase)



23kW

Max. AC output power



IP66

Protection rating

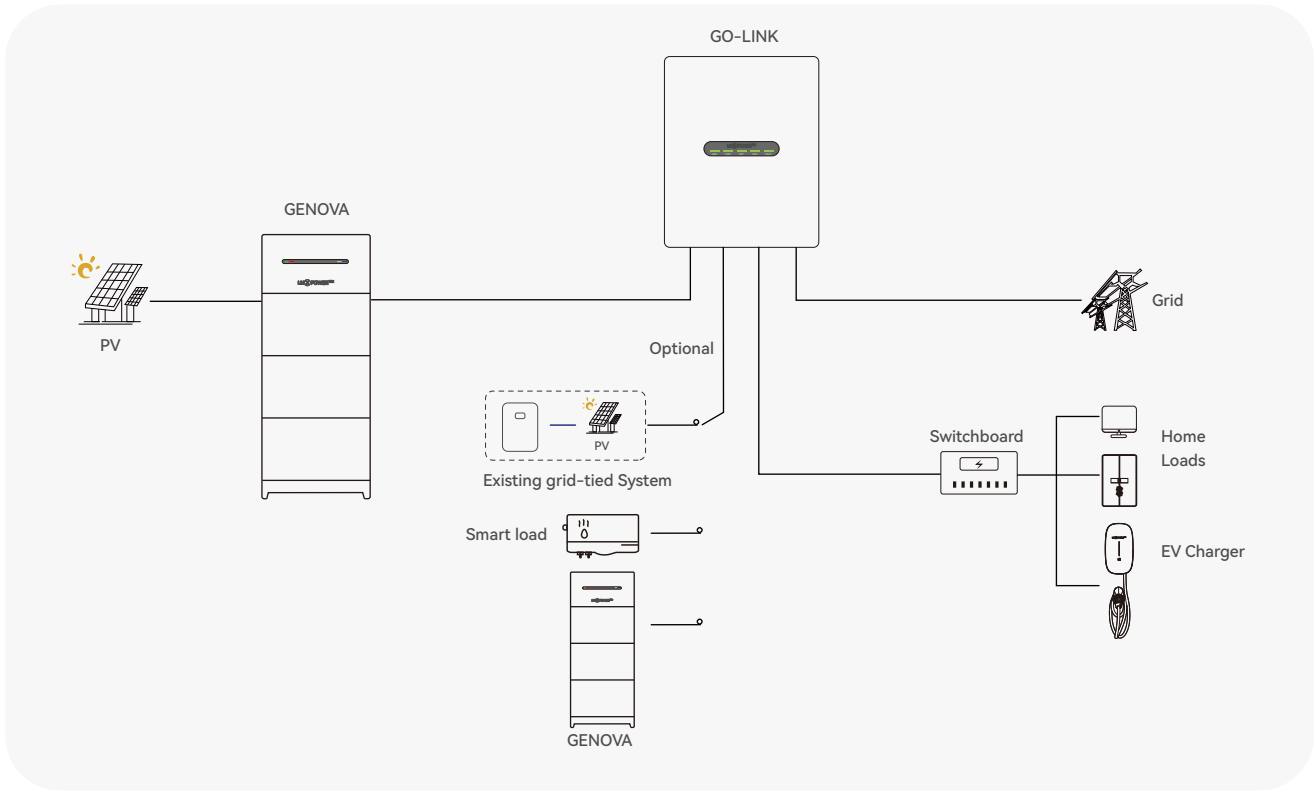


<20ms

Seamless switching

- ◆ Built-in-bypass ensures uninterrupted power during maintenance or faults.
- ◆ Whole-home smart backup with intelligent load management.
- ◆ Multi-functional smart port for GENOVA, AC coupling, and smart loads.

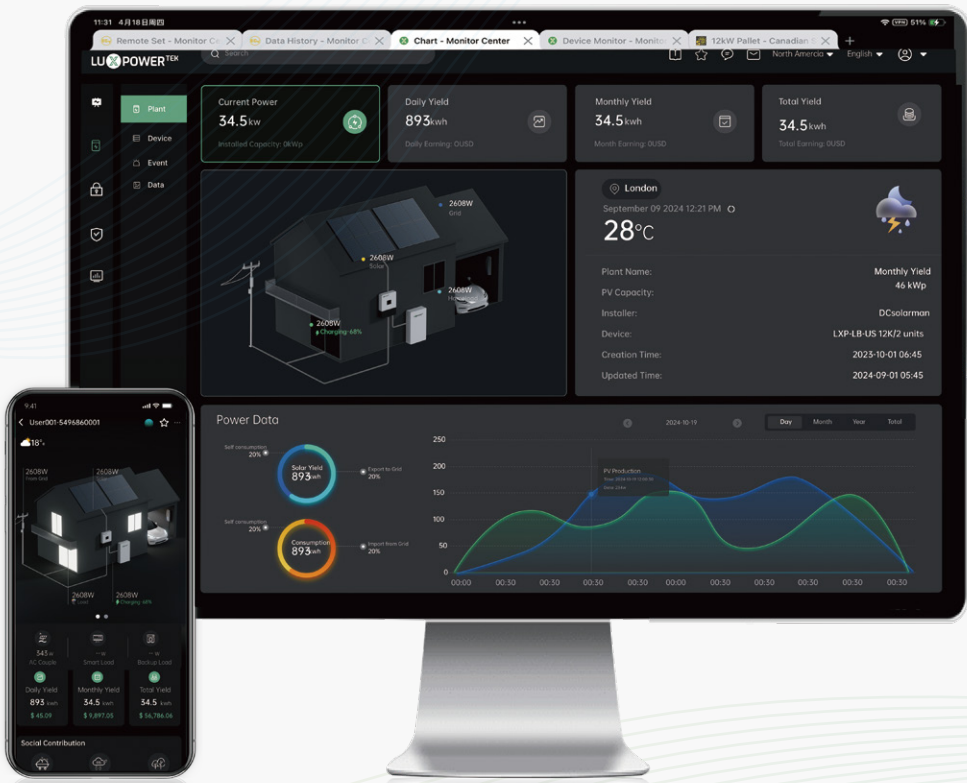
Model	GO-LINK
Grid Connection	
Rated input voltage (V)	220/380Vac; 230/400Vac
Rated input frequency (Hz)	50/60
Max. AC input power (W)	23000
Max. AC input current (A)	33.3
Transfer time (ms)	20
AC Output to Backup Port	
Rated AC voltage (V)	220/380Vac; 230/400Vac
Rated input frequency (Hz)	50/60
Rated AC power (W)	23000
Rated AC current (A)	33.3
Overvoltage category	IV
Inverter Connection	
Rated AC voltage (V)	220/380Vac; 230/400Vac
Rated input frequency (Hz)	50/60
Rated AC power (W)	14000
Rated AC current (A)	20.3
Smart Port Connection	
Number of port	1
Rated input voltage (V)	220/380Vac; 230/400Vac
Rated input frequency (Hz)	50/60
Rated AC current (A)	20.3
General	
Dimensions (W × H × D)	345 × 425 × 110 mm / 13.58 × 16.73 × 4.33 in
Weight	7 kg / 15.43 lbs
Relative Humidity	0 ~ 95%
Operating temperature range (°C)	25 ~ 60 °C
Ingress protection rating	IP66
Cooling method	Natural Cooling
Max. operating altitude (m)	4000, > 2000m derating



MONITORING APP/WEB

LUXCLOUD 2.0
MONITORING
PLATFORM

LuxCloud is LuxpowerTek's intelligent monitoring and control platform for residential and small-commercial energy storage systems. It provides clear system visibility, smart optimization, and powerful tools for every users.



For APP
Download



Android



IOS

Real-Time
System Overview

Visualizes energy flow from PV, battery, load, and grid with clear dashboards and status indicators.

Smart Control
& Settings

Enables quick configuration of operating modes, charge/discharge rules, export limits, and generator control.

AI-Adaptive
Optimization

Uses weather forecasting and load analysis to automatically adjust energy dispatch and extend battery life.

LuxBot AI
Assistance

Offers 24/7 multilingual support for troubleshooting, device diagnostics, and operational guidance.

Cross-Platform
Access

Available on mobile app and web, ensuring easy monitoring and management anytime, anywhere.

User & Service
Provider Modes

End users get simplified energy insights; Service Provider gain access to advanced diagnostics, parameter settings, and remote maintenance tools

GLOBAL SERVICE NETWORK

It covers over 100+ countries and regions, and has established local service support centers in areas such as South Africa, the United States, Nigeria, the United Kingdom, and Brazil, responding quickly to customer needs and building an efficient after-sales service loop.



5

Overseas
Subsidiary



11

Overseas
Service Centers



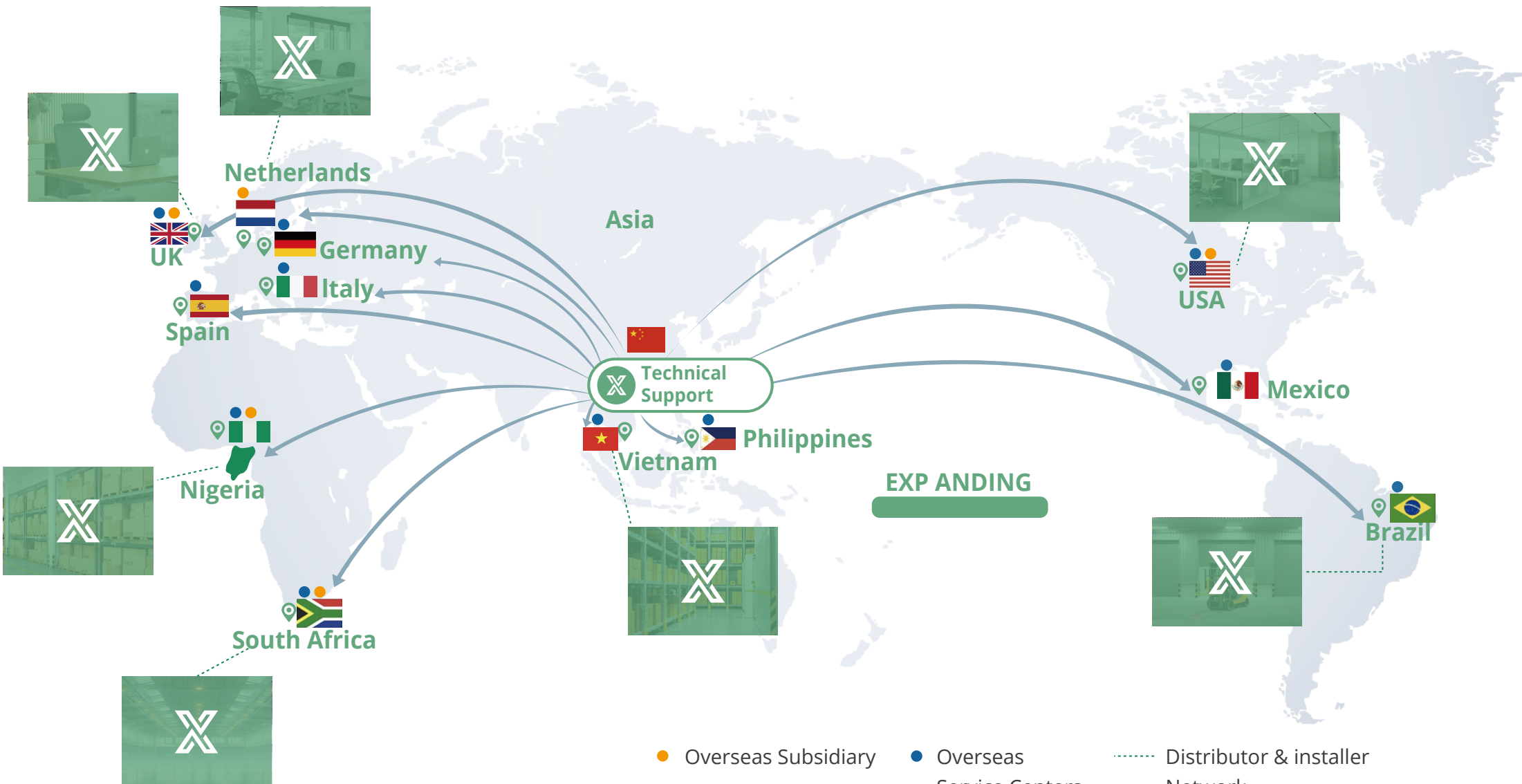
100+

Countries&Regions
Served



24/7

Technical
Support



EMPOWERING THE WORLD, ONE EVENT AT A TIME

Working hand in hand with our partners, we bring clean energy solutions to more communities around the world.

GLOBAL MARKET STRATEGY

- Explore**
Identify market opportunities worldwide
- Connect**
Engage with distributors and installers
- Support**
Provide training and technical services
- Grow**
Build long-term partnerships globally



USER STORIES



LuxpowerTek energy storage systems are widely adopted worldwide, providing stable and efficient solutions for homes and businesses. The smart monitoring system enables remote management, ensuring users can optimize energy usage anytime. With reliable performance and professional support, LuxpowerTek empowers customers toward a sustainable energy future.



2017
|
2026