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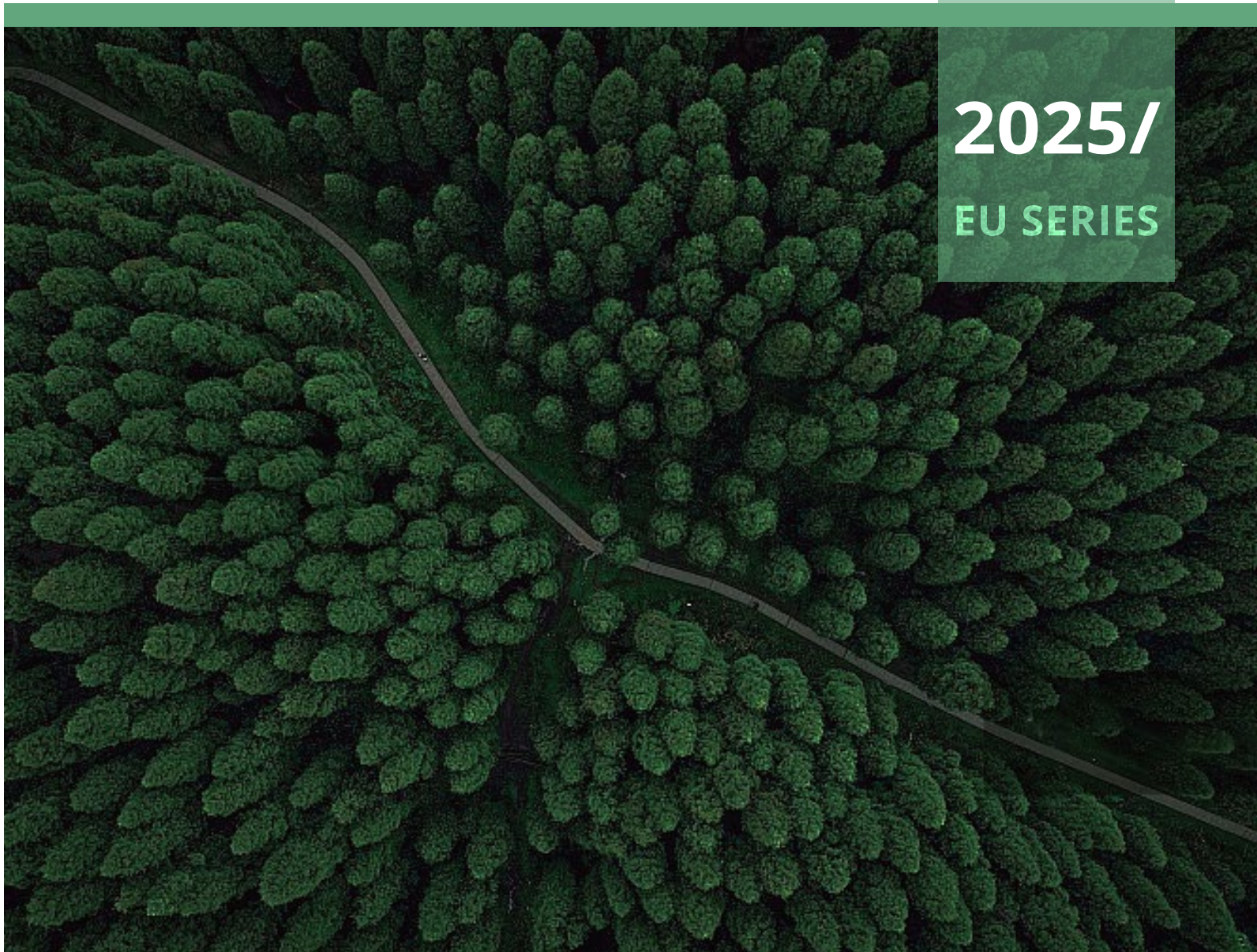
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Lux Power Technology Co., Ltd

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2025/
EU SERIES



MARKET LAYOUT



300,000+
systems

30kW
Max.Power

30+
Country operations

100%
service coverage



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.

HYBRID SERIES

• SINGLE-PHASE



GEN-LB-EU 3-6K

P03



GEN2-LB-EU 3-6K

P05



GEN-LB-EU 7-10K

P07



GEN2-LB-EU 7-14K

P09



LXP-LB-EU 12K

P11

• THREE-PHASE



TriP2-LB-3P 5-20K

P13



TriP2-HB-3P 6-30K

P15

AC/DC RETROFIT SERIES



ACS 3600

P31



LSP 100K

P33

OFF-GRID SERIES



GETA 1.5-6K

P19



SNA 3-6K

P21



SNA3-EU 3.3-6.5K

P23



SNA-EU 12-14K

P25



SNA2-EU-LT 10-14K

P27

ALL-IN-ONE ESS SERIES



Eco Beast

P35

HYBRID SERIES

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 three-phase

Advanced Parallel Units (Parallel Versions)

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

Key Features

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



Single-Phase

GEN-LB-EU 3-6K

GEN2-LB-EU 3-6K

GEN-LB-EU 7-10K

GEN2-LB-EU 7-14K

LXP-LB-EU 12K

Three-Phase

TriP2-LB-3P 5-20K

TriP2-HB-3P 6-30K

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

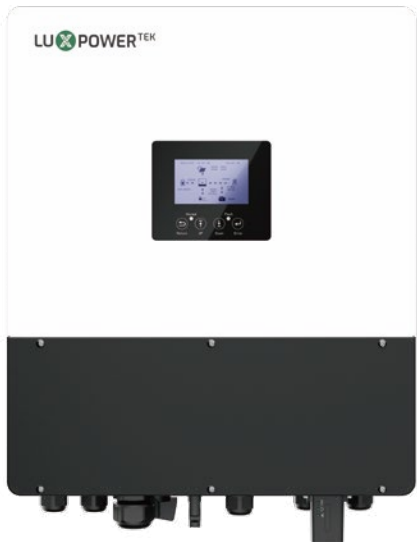
- 2 MPPTs with Max. PV Input of 9.6kW, 18A Max. PV Input Current per MPPT
- Max. charge and discharge current: 125/140A
- Support up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge for e-bill reduction
- On/off grid seamless switching
- Separate port for
 - Generator connection
 - Auto generator control
 - Support generator exercise
 - Support generator boost function
 - Or smart load connection and auto control
 - Or AC coupling function



Model	GEN-LB-EU 3K		GEN-LB-EU 3.6K	GEN-LB-EU 4K	GEN-LB-EU 4.6K	GEN-LB-EU 5K	GEN-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						
Max. PV short-circuit current input per MPPT (A)	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 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 intput 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)	26						
Rated GEN input power (W)	6000						
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)	20 ms						
Wave form	Sine wave						
THDV	< 5 %						
Efficiency							
MPPT efficiency	99.9 %						
EU efficiency	95.4 %						
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)	487 × 455 × 211.7 mm / 19.2 × 17.9 × 8.3 in						
Weight	29 kg / 64 lbs						
Ingress protection rating	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	Smart cooling						
Topology on AC side	Transformer-less						
Topology on Battery side	Transformer						
Max. Operating Altitude (m)	2000						
Noise emission (dB)	50						
DC connection (VP-D4 / MC4 (Optional))	MC4						
AC connector	YES						
Standards & Certification							

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

- 2 MPPTs with Max. PV Input of 9.6kW, 18A Max. PV Input Current per MPPT
- Max. Charge/Discharge Current: 125A / 140A
- Parallel Operation Support: Up to 10 units for both on-grid and off-grid systems
- 24/7 Real-Time Monitoring: Access and manage remotely
- Dedicated Ports for Multiple Connections:
 - Generator Connection
 - Smart Load Connection
 - AC Coupling Function



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 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)	7 ms											
Wave form	Sine wave											
THDV	< 5 %											
Efficiency												
MPPT efficiency	99.9 %											
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 side	Transformer-less											
Topology on Battery side	Transformer											
Max. Operating Altitude (m)	2000											
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)												

GEN-LB-EU 7-10K (Single-Phase)

- 2 MPPTs, Max. PV input 15kW
- Max. charging and discharging current: 210A
- Supports up to 10pcs in parallel for on/off grid
- Time of Use and weather optimization charge for e-bill reduction
- 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



Model	GEN-LB-EU 7K		GEN-LB-EU 8K	GEN-LB-EU 10K
Input (PV DC)				
Max. PV input power (W)	12000		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 ~ 550	
Start-up voltage (V)			140	
Max. PV input current per MPPT (A)			25	
Max. PV short-circuit current input per MPPT (A)			34	
Battery				
Compatible battery type	Lithium-ion / Lead-Acid			
Rated battery voltage (V)	48			
Battery voltage range (V)	40 ~ 60			
Max. charge/discharge current (A)	146		167	208
Max. charge/discharge power (W)	7000		8000	10000
Force wake up battery from PV function	YES			
Grid				
Rated AC voltage (V)	230			
Rated AC frequency (Hz)	50 / 60			
Rated AC output current (A)	30.4		34.8	43.8
Rated AC output power (W)	7000		8000	10000
Max. AC input power (W)	15000			
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI	< 3 %			
Max. continuous AC passthrough current (A)	60			
GEN				
Rated GEN voltage (V)	230			
Rated GEN frequency (Hz)	50 / 60			
Rated GEN input current (A)	60			
Rated GEN input power (W)	13800			
UPS				
Rated output power (W)	7000		8000	10000
Rated output voltage (V)	230			
Rated output current (A)	30.4		34.8	43.8
Rated output frequency (Hz)	50 / 60			
Surge power, duration	2 × rated power for 0.5s			
Switching time (UPS)	< 20 ms			
Wave form	Sine wave			
THDV	< 3 %			
Efficiency				
MPPT efficiency	99.9 %			
EU efficiency	94.3 %			
Max. efficiency	97.5 %			
Max. charge/discharge efficiency	94.0 %			
Protection				
PV reverse polarity protection	YES			
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			
AC / DC Surge protection	Type III			
General				
Dimensions (W × H × D)	536 × 556 × 290 mm / 21.1 × 22.3 × 11.4 in			
Weight	42.64 kg / 94 lbs			
Ingress protection rating	IP66			
Relative humidity	0 ~ 100 %			
Operating environment temperature range (°C)	-25 ~ 60			
Storage temperature range (°C)	-25 ~ 60			
Display & Communication interface	Touch color screen, RS485 / Wifi / CAN			
Warranty	5 years			
Cooling method	Smart cooling			
Topology	Transformer-less			
Max. Operating Altitude (m)	2000			
Noise emission (dB)	50			

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

- 3 MPPTs with 4 strings, Max. PV input 18kW
- Max. charging and discharging current: 250A
- Supports up to 10pcs in parallel for on/off grid
- AI-Driven optimization mode for e-bill reduction
- 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



Model	GEN2-LB-EU 7K GEN2-LB-BR 7.5K 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	157	187	210	250	
Max. charge/discharge power (W)	7000	7500	8000	10000	12000	
Force wake up battery from PV function	YES					
Grid						
Rated AC voltage (V)	230	220	230			
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	30.5	34.5	35	43.5	52	61
Rated AC output power (W)	7000	7500	8000	10000	12000	14000
Acceptable Input Voltage Range (V)	180 ~ 270					
Max. AC input current (A)	80					
Max. AC input power (W)	18000					
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
THDI	< 5 %					
Max continuous AC passthrough current (A)	80					
GEN						
Rated GEN voltage (V)	230	220	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@230V	7500@220V	8000@230V	10000@230V	12000@230V	
Rated output voltage (V)	230	220	230			
Rated output current (A)	30.5	34.5	35	43.5	52	
Rated output frequency (Hz)	50 / 60					
Surge power, duration	2 × rated power for 0.5s					
Switching time (UPS)	Single: 10ms / Parallel: 20ms					
Wave form	Sine wave					
THDV	< 3 %					
Efficiency						
MPPT efficiency	99.9 %					
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)	520 × 653 × 275 mm / 20.5 × 25.7 × 10.8 in					
Weight	47.5 kg / 104.7 lbs					
Ingress protection rating	IP66					
Relative humidity	0 ~ 100 %					
Operating environment temperature range (°C)	-25 ~ 60 °C , > 45 °C Derating					
Storage temperature range (°C)	-25 ~ 60					
Display & Communication interface	Touch color screen, RS485 / Wifi / CAN					
Warranty	5 / 10 years					
Cooling method	Smart cooling					
Topology on AC / Battery side	Transformer-less / Transformer					
Max. Operating Altitude (m)	2000					
Noise emission (dB)	55					
Standard & Certification						
PTPIREE TypeA, EN 62109-1/EN 61000						

LXP-LB-EU 12K (Single-Phase)

- 3 MPPTs, Max. 18kW of PV input
- 12kW UPS output for backup during power cuts
- Supports up to 10pcs in parallel for on/off grid
- On/off grid seamless switching
- 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



Model	LXP-LB-EU 12K
Input (PV DC)	
Max. PV input power(W)	18000
Max. PV input power (W)	360
Number of independent MPPT inputs	3 / (2:1:1)
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 / 15 / 15
Max. PV short-circuit current input per MPPT (A)	31 / 19 / 19
Battery	
Compatible battery type	Lithium-ion / Lead-Acid
Rated battery voltage (V)	48
Battery voltage range (V)	40 ~ 60
Max. charge/discharge current (A)	250
Max. charge/discharge power (W)	12000
Force wake up battery from PV function (Y/N)	YES
Grid	
Rated AC voltage (V)	230
Rated AC frequency (Hz)	50 / 60
Rated AC output current (A)	50
Rated AC output power (W)	11500
Max. AC input current (A)	200
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)
THDI	< 3 %
Max. continuous AC passthrough current (A)	200
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)	11500
Rated output voltage (V)	230
Rated output current (A)	50
Rated output frequency (Hz)	50 / 60
Surge power, duration	2 × rated power for 0.5s
Switching time	20 ms
Wave form	Sine wave
THDV	3 %
Efficiency	
MPPT efficiency	99.9 %
EU efficiency	96.0 %
Max. efficiency	97.5 %
Max. charge / discharge efficiency	94.0 %
Protection	
PV reverse polarity protection	YES
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
AC/DC Surge protection	Type III
General	
Dimensions (W × H × D)	490 × 670 × 265 mm / 19.3 × 26.3 × 10.4 in
Weight	50 kg / 110.2lbs
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 / Wi-Fi / CAN
Warranty	5 years
Cooling method	Smart Cooling
Topology	Transformer-less
Max. Operating Altitude (m)	2000
Noise emission (dB)	50

Standards & Certification
EMC SANS 211: 2010, CISPR 2015+A1 : 2016, IEC 61000-2-2-2012+A1: 2017+A2 : 2018, Cape Town list, G99, G100, NRS 097-2-1 : 2017, EN/IEC 62109-1/2, IEC 61683

TriP2-LB-3P 5-20K (Three-Phase)

- Supports three-phase unbalanced loads for greater compatibility with mixed residential or commercial applications
- Max. 3 MPPTs with 3 strings, Max. PV input: 30kW
- Compatible with 48V low-voltage battery systems
- Supports independent grid export control for each phase
- Time of use, 8 time periods for charging & discharging
- Max. 10 pcs parallel for on grid &off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
 - AC coupling function



Model	TriP2-LB-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	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, 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)	7.20	8.70	11.60	14.50	17.40	21.70	29.00
Max. AC input current (A)	9	10.9	14.5	18.1	21.8	27.1	36.25
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, 230 / 400Vac						
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, 230 / 400 Vac						
Rated output current (A)	7.20	8.70	11.60	14.50	17.40	21.70	29.00
Rated output frequency (Hz)	50 / 60						
Surge power, duration	1.5 × rated power for 5min						
Switching time	10 ms						
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	YES						
AC Surge protection	YES						
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	Transformer-less						
Max. Operating Altitude (m)	2000						
Noise emission (dB)	50						
Standards & Certification							

EN 62109/EN 61000, IEC 61683, EN 50549-10, PTPIREE TypeA

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

- Max. 3 MPPTs and Max. PV input 45kW
- 150% unbalanced output, Max.15kW per phase
- Battery working range: 100~800V
- Max. 30kW UPS output
- Supports independent grid export control for each phase
- Supports up to 10pcs in parallel for on/off grid
- Dedicated GEN port for
 - Auto GEN control
 - Smart load function
 - AC coupling function



Model	TriP2-HB-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							
Battery voltage range (V)	100 ~ 800							
Max. charging voltage (V)	800							
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, 230 / 400 Vac							
Rated AC frequency (Hz)	50/ 60							
Rated AC output current (A)	8.7	11.6	14.5	17.4	21.7	29	36.2	43.5
Rated AC output power (W)	6000	8000	10000	12000	15000	20000	25000	30000
Max. AC input current (A)	11.3	17.4	21.8	26.1	32.6	43.5	54.3	65.3
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, 230 / 400Vac							
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, 230 / 400 Vac							
Rated output current (A)	8.7	11.6	14.5	17.4	21.7	29	36.2	43.5
Rated output frequency (Hz)	50 / 60							
Surge power, duration	1.5 × rated power for 5min							
Switching time	≤ 10 ms							
Wave form	Sine wave							
THDV	< 3 %							
Efficiency								
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 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	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	Transformer-less							
Max. Operating Altitude (m)	2000							
Noise emission (dB)	50							
Standards & Certification								

ECO HYBRID / OFF-GRID



- GETA 1.5-6K
- SNA 3-6K
- SNA-EU 12-14K
- SNA3-EU 3.3-6.5K
- SNA2-EU-LT 10-14K

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.

480V 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 1.5-6K(Single-Phase)

- Max. PV input 500V with 2 MPPT built-in
- Battery Activation via PV and Utility Grid
- Dual Outputs for Intelligent Load Management
- Real-Time 24/7 Remote Monitoring
- Flexible Operation Modes to Meet Diverse Energy Needs
- EQ Function for Enhanced Battery Performance and Longevity
- Wide Voltage Compatibility: Supports 12V, 24V, and 48V Battery Systems



Model	GETA 1.5K/12V	GETA 2.5K/24V	GETA 3.6K/24V	GETA 3.6K/24V-120	GETA 3.6/48V	GETA 6K/48V
Input (PV DC)						
Max. PV array power (W)	2000	3000	4000			6500
Max. PV input voltage (V)	500					
Number of independent MPPT inputs	1					
Max. PV input voltage (V)	500					
MPPT voltage range (V)	45 ~ 500	100 ~ 500			100 ~ 500	
Start-up voltage (V)	45	55			90	
Max. PV input current per MPPT (A)	18					27
Battery						
Compatible battery type	Lithium-ion / Lead-acid					
Rated battery voltage (V)	12	24			48	
Floating Charge Voltage (V)	13.5	27			54	
OverCharge Protection (V)	16.5	32			63	
Max. PV Charge Current	100				60	120
Max. AC Charge Current	60				40	80
Max. Charge Current (PV+AC)	100				60	120
Force wake up battery from PV function	Yes					
Force wake up battery from Grid function	No		Yes			
Grid						
Rated AC voltage (V)	230			120	230	
AC voltage range (V)	170-280VAC (For Personal Computer); 90-280VAC (For Home Appliances)					
Rated AC frequency (Hz)	50 / 60					
Rated AC output current (A)	6.5	10.9	15.7	30	15.7	25.2
Rated AC output power (W)	1500	2500	3600	3600	3600	5800
PF	0.99					
THDI	< 3 %					
UPS						
Rated output power (W)	1500	2500	3600			5800
Rated output voltage (V)	220 / 230VAC + 5 %			120VAC + 5 %	220 / 230VAC + 5 %	
Rated output current (A)	5.2	10.9	13.9	30	13.9	22.6
Rated output frequency (Hz)	50 / 60					
Output Port	Single Output		Dual Outputs			
Surge power, duration	2 × rated power for 2s					
Switching time (UPS)	10 ms (For Personal Computer); 20 ms (For Home Appliances)					
Wave form	Sine wave					
THDV	3 %					
Overload Protection	5s@≥1.4 × rated power; 10s@(1~1.4) × rated power					
Efficiency						
MPPT efficiency	99.0 %					
Max. charge efficiency	96.0 %					
Max. discharge efficiency	93.0 %					
Protection						
Over current / voltage protection	Yes					
AC Short-circuit current protection	Yes					
DC Surge protection	Type III					
AC Surge protection Type III	Type III					
General						
Dimensions (W × H × D)	307 × 418 × 111 mm/ 12.1 × 16.5 × 4.4 in		307.4 × 418 × 111 mm / 12.1 × 16.5 × 4.4 in			321.5 × 488 × 122 mm 12.7 × 19.2 × 4.8 in
Weight	6 kg / 13.2 lbs	6.2 kg / 13.7 lbs	7 kg / 15.4 lbs	TBD		10kg / 22.0 lbs
Ingress protection rating	IP21					
Parallel Capacity	No					
Relative humidity	5 % ~ 95 %					
Operating environment temperature range (°C)	-10 ~ 55 (> 40 °C Derating)					
Storage temperature range (°C)	-15 ~ 60					
Display & Communication interface	LCD + LED; WIFI					
Warranty	2 years					
Cooling method	Smart Cooling					
Max. Operating Altitude (m)	2000					
Standard & Certification						

SNA 3-6K (Single-Phase)

- Off-grid seamless switching 2 MPPTs, Max. PV input: 9.6kW
- Wide PV input voltage range: 100~500V
- Supports up to 18 units in parallel
- Max. charging and discharging current 140A
- Dedicated Port: Supports generator, AC coupling or smart load management for enhanced stability
- 24/7 real-time monitoring via LUX app with worry-free updates



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 function	YES				
Force wake up battery from Grid function	YES				
Grid					
Rated AC voltage (V)	230				
Rated AC frequency (Hz)	50 / 60				
Rated AC output current (A)	13.5	17.5	22	26.5	
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)	13.5	17.5	22	26.5	
Rated output frequency (Hz)	50 / 60				
Surge power, duration	2 × rated power for 5s				
Switching time	< 10 ms@Single / < 20 ms@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				
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	Transformer-less				
Max. Operating Altitude (m)	2000				
Noise emission (dB)	50				
Standards & Certification					
IEC 62109-1/2, IEC 61683, EN 61000, MEA, PEA					

SNA3-EU 3.3-6.5K (Single-Phase)

- 2 MPPTs with Max. PV Input of 12kW
- IP65 Protection Rating: Ensures reliable dust and water resistance
- Parallel Operation: Supports up to 16 units for scalable energy solutions
- Max. Charge/Discharge Current: 140A
- Seamless Off-Grid Switching: Automatic transition for uninterrupted power
- Dedicated Port: Supports generator or smart load management for enhanced system stability
- Smart Monitoring: Remote configuration and real-time performance tracking



Model	SNA3-EU 3.3K		SNA3-EU 4K		SNA3-EU 5K		SNA3-EU 6.5K	
Input (PV DC)								
Max. PV input power (W)	6600 (3300 / 3300)		8000 (4000 / 4000)		10000 (5000 / 5000)		12000 (6000 / 6000)	
Rated PV input voltage (V)	320							
Number of independent MPPT inputs	2							
PV input voltage range (V)	480							
MPPT voltage range (V)	80 ~ 385							
Start-up voltage (V)	100							
Max. PV input current per MPPT (A)	40 (20 / 20)							
Max. PV short-circuit current input per MPPT (A)	50 (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)	73/75		90		110		140	
Max. charging/discharging power (W)	3300		4000		5000		6500	
Force wake up battery from PV function	YES							
Force wake up battery from Grid function	YES							
Force wake up battery from GEN fuction	YES							
Grid								
Rated AC voltage (V)	230							
Rated AC frequency (Hz)	50 / 60							
Rated AC output current (A)	14.3		17.5		22		26.5	
Rated AC output power (W)	3300		4000		5000		6500	
Max. AC intput power (W)	6000		8000				9000	
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)							
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)	26		32					
Rated GEN input power (W)	3300		7370					
UPS								
Rated output power (W)	3300		4000		5000		6500	
Rated output voltage (V)	230 / 120		230					
Rated output current (A)	14.3		17.5		22		26.5	
Rated output frequency (Hz)	50 / 60							
Surge power, duration	6600W, 5s		8000W, 5s		10000W, 5s		13000W, 5s	
Switching time	< 10 ms @ Single; < 20 ms @ Parallel							
Wave form	Sine wave							
Load Capacity of Motor	1HP		2HP		3HP			
OverLoad Capacity	10s@110 % ~ 150 % load; 5s@150 % ~ 200 % load							
THDV	3 %							
Efficiency								
MPPT efficiency	99.0 %							
Max. efficiency	94.0 %							
Max. charge efficiency	94.0 %		93.0 %				94.0 %	
Max. discharge efficiency	93.0 %							
Protection								
Over current/voltage protection	YES							
AC Short-circuit current protection	YES							
Grid monitoring	YES							
AC/DC surge protection	YES							
PV Switch	Optional							
Rapid shut down	Optional							
Power Switch	Optional							
General								
Dimensions (W × H × D)	420 × 520 × 190 mm / 16.5 × 20.5 × 7.5 in							
Weight	TBD							
Ingress protection rating	IP65							
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	5 years							
Cooling method	Smart Cooling							
Topology on AC side	Transformer-less							
Topology on Battery side	Transformer							
Max. Operating Altitude (m)	4000m, >2000m Power derating							
Noise emission (dB)	40							
Standards & Certification								

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

- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- Off-grid application for high demand with 12kW output power
- Dual AC output ports for multiple load connections
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery
- Supports up to 16 units in parallel
- Separate Gen Port for
 - Auto start-stop
 - Working with the existing grid-tied system
 - Smart load management



Model	SNA-EU 12000		SNA-EU 14000
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)	480		
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 and Grid 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 / 600		
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)	< 10 ms		
Wave form	Sine wave		
THDV	< 3 %		
Overload protection	5s@≥1.5 × rated power / 10s@(1.1~1.5) × rated 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	Transformer-less / Transformer		
Max. Operating Altitude (m)	2000		
Noise emission (dB)	55		
Standard & Certification			

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

- Max. PV input: 24kW with 2 MPPTs
- Max. charging and discharging current: 250A
- Support up to 16 units in parallel for on/off grid
- Lite Design for Easier Installation
- Support Hybrid Working Modes
- Intelligent Operating Mode to Lower Energy Costs & Quick ROI
- Separate Gen Port for
 - Auto start-stop
 - Working with the existing grid-tied system
 - Smart load management



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)			480	
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	250	270	
Max. charging / discharging power (W)	11000	12000	13000	
Force wake up battery from PV and Grid 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			
Rated GEN current of BYPASS relays (A)	90			
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)	< 10 ms			
Wave form	Sine wave			
THDV	< 3 %			
Overload protection	5s@≥1.5×10K / 10s@(1.1~1.5)×10K(Only Battery)	5s@≥1.5×12K / 10s@(1.1~1.5)×12K(Only Battery)	10s@≥1.18 ×12K (With PV+ Battery)	
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	Transformer-less / Transformer			
Max. Operating Altitude (m)	2000			
Noise emission (dB)	55			
Standard & Certification				
NRS 097, EN 62109-1/-2				

RETROFIT YOUR SOLAR SYSTEM

AC Retrofit

- LXP 3600 ACS

DC Retrofit

- LSP 100K

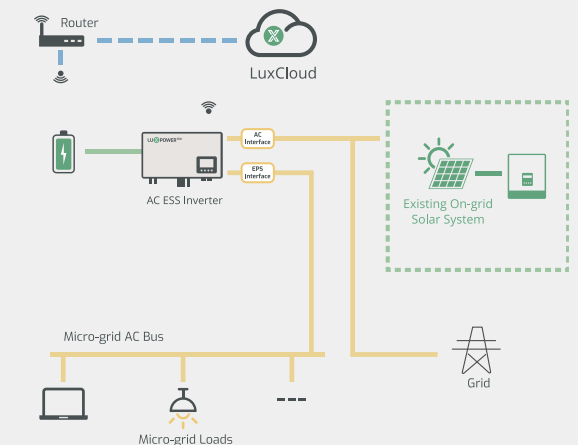


One Step to Retrofit Your Solar System

AC Retrofit

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

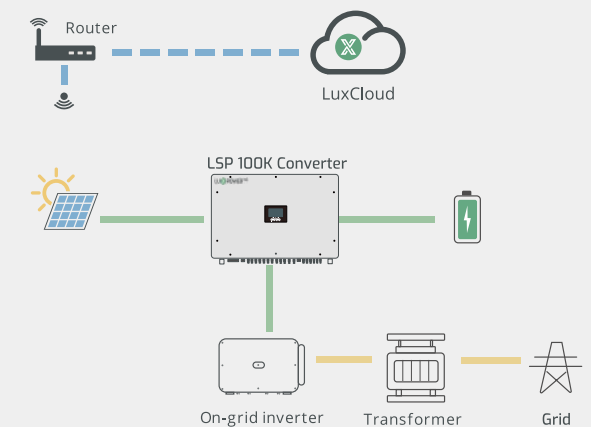
It couldn't be easier than installing an LXP AC series inverter coupled on AC side with a battery pack. Installation of a Lux AC system should not affect existing solar systems or feed in tariffs.



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.

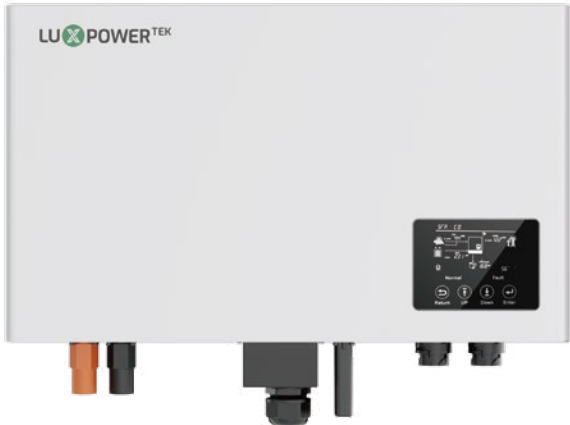


LXP 3600 ACS

- Retrofit any on-grid/micro-grid system to energy storage system
- Battery charging/discharging current: 70A
- Octopus smart time of use and weather optimize
- On/off grid seamless switching
- Support up to 8pcs in parallel
- Separate EPS port for flexible load management

NOTE:

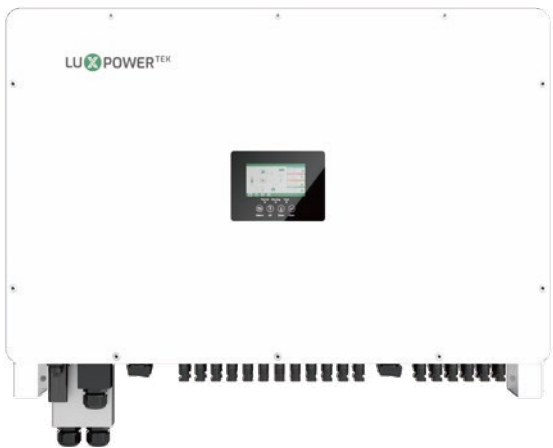
Intelligent charge feature is only available in the UK for now, supporting regional customization



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	20 ms
Wave form	Sinuswelle
THDV	< 3 %
Parallel capacity	6
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	Transformer-less
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, G98, G100	

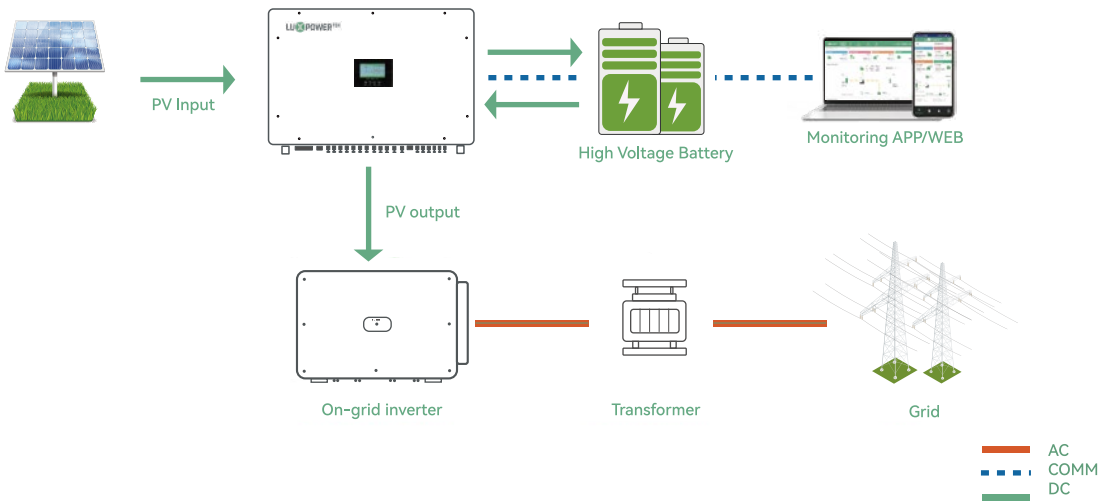
LSP 100K

- Max. 200kW PV input and 100kW PV output
- Retrofit on-grid system to hybrid system (energy storage)
- DC-coupling, 24 MPPT inputs and 12 MPPT outputs
- 24/7 real-time monitoring via free LUX app and web
- Advanced power management logic
- Colorful touch LCD, IP65 for indoor/outdoor installation



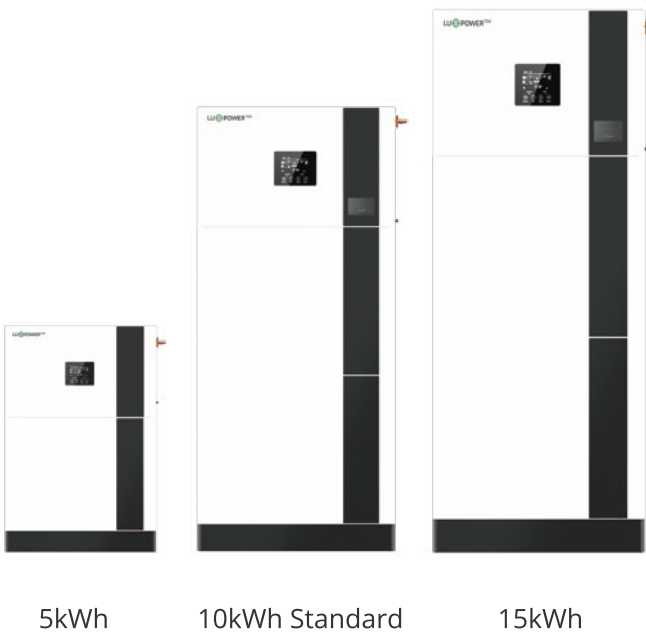
Model	LSP 100K	
PV Input		
Max. input power (kW)	200	
Max. input voltage (V)	1100	
Rated PV input voltage (V)	630	
MPPT voltage range (V)	300 ~ 900	300 ~ 1000
Start-up voltage (V)	330	
Max. short-circuit per MPPT (A)	33	
Max. current per MPPT input (A)	26	
Number of MPPT inputs	12	
Number of input strings	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	Transformer-less	
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



Eco Beast (Single-Phase)

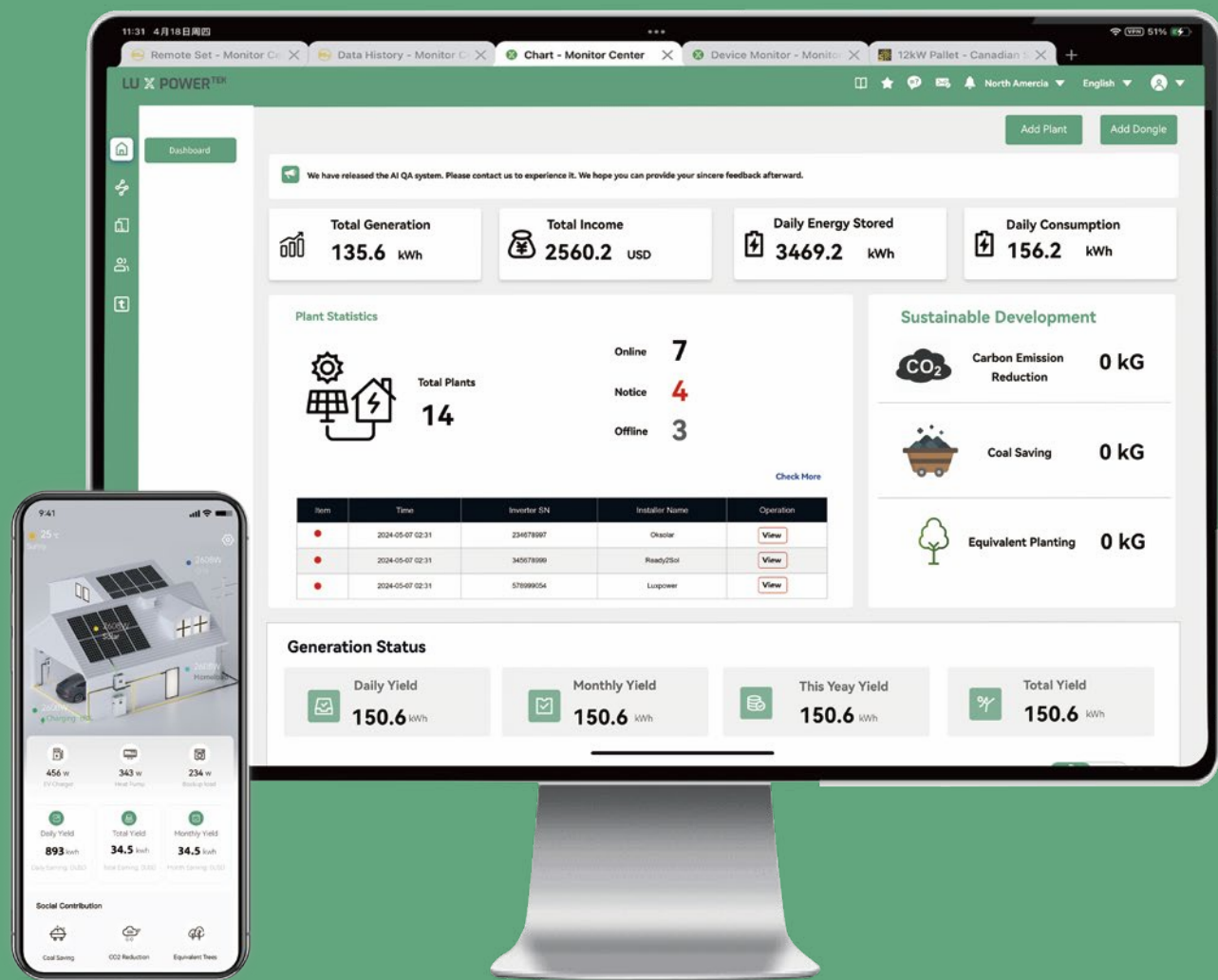
- 2 MPPTs, Max. 9.6kW PV input
- On/off-grid switching
- Battery module level mornitoring
- PV or AC or Generator wake up battery
- Expandable storage – Up to 16pcs in parallel
- Remote monitoring and firmware updates with battery



Model	Eco Beast
INVERTER MODULE	
Input (PV DC)	
Max. PV input power (W)	9600 (4800 / 4800)
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2 / (1:1)
Max. PV input voltage (V)	480
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
Max. PV charging current (A)	140
AC Output (Backup)	
Output voltage waveform	38.4 ~ 60
Output voltage regulation (V)	208 / 220 / 230 / 240 ± 5%
Output frequency (Hz)	50 / 60
Rated output power (W)	6000
Rated output current (A)	26.5
Peak efficiency	93 %
Overload protection	5s@≥150% overload; 10s@110%~150% overload
Surge power	2 × rated power for 0.5s
Switching time	<7 ms@Single; <20 ms@Parallel
AC Input	
Rated input voltage (V)	230
Rated input frequency (Hz)	50 / 60 (Auto detection)
Max. AC input current (A)	39.5
Max. AC input power (W)	9000
Max. AC charging current (A)	140
Rated AC current of bypass relays (A)	60
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
Rated GEN current of bypass relays (A)	60
Battery Connection	
Battery module model	Battery Beast-5
Battery module voltage (V)	38.4 ~ 60
Number of modules per inverter	1 ~ 3
Efficiency	
Max. efficiency	93.5 %
Max. charge/discharge efficiency	93.0 %
Protection	
Grid monitoring	YES
AC surge protection	Type III
Standards & Certification	
NRS097-2-1:2024,EN/IEC62109-1/-2,EN61000	
Battery Module	
Battery power (kWh)	5.12
Rated voltage (V)	51.2
Rated capacity (Ah)	100
Battery type	Lithium-ion
Max. discharging current (A)	100
Max. charging current (A)	100
Dimension (W × H × D)	580 × 434 × 165 mm / 22.8 × 17.1 × 6.5 in
Net weight	54 kg / 119.1lbs
Standard	UN38.3, CE
General Specifications	
Inverter module weight	17.5 kg / 38.6 lbs
Inverter module dimension (W × H × D)	580 × 350 × 165 mm / 22.8 × 13.8 × 6.5 in
Battery module weight	57.4 kg / 126.5 lbs
Battery module dimension (W × H × D)	580 × 434 × 165 mm / 22.8 × 17.1 × 6.5 in
Ingress protection rating	IP20
Display & Communication interface	LCD + LED, RS485 / Wi-Fi / CAN
Cooling method	Smart cooling
Topology	Transformer-less
Noise emission (dB)	< 58
Operating temperature range (°C)	0 ~ 45
Storage temperature (°C)	-15 ~ 60
Humidity	5% to 95% Relative Humidity (Non-condensing)
Max. Operating Altitude (m)	2000

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.

AI-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.

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EMPOWERING THE WORLD, ONE EVENT AT A TIME



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Luxpower 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, Luxpower empowers customers toward a sustainable energy future.

