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LANP | Sunplain

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LANP

Lanp New Energy Energy Storage Product Catalogue



COMPANY PROFILE

Lanp, Empowering Innovation, Championing Craftsmanship, Committed to Safety Leadership

Lanp New Energy specialises in the energy storage sector, leveraging the Group's heritage in railway R&D and manufacturing. We integrate precision manufacturing techniques and reliability engineering expertise into the development and production of new energy storage systems. Our focus encompasses the R&D, manufacturing, and sales of a comprehensive range of energy storage products, including commercial and industrial storage, residential storage, and mobile power solutions. We deliver holistic energy solutions spanning photovoltaic-storage-charging integration, microgrid systems, and dual-carbon implementation strategies. Equipped with a dedicated R&D team and automated production lines, our products hold multiple international safety certifications and support OEM/ODM customisation partnerships. Continuously monitoring global market demands, we deliver flexible and efficient energy solutions, committed to providing safer, more reliable, and greener energy storage products and services to customers worldwide.

Vision

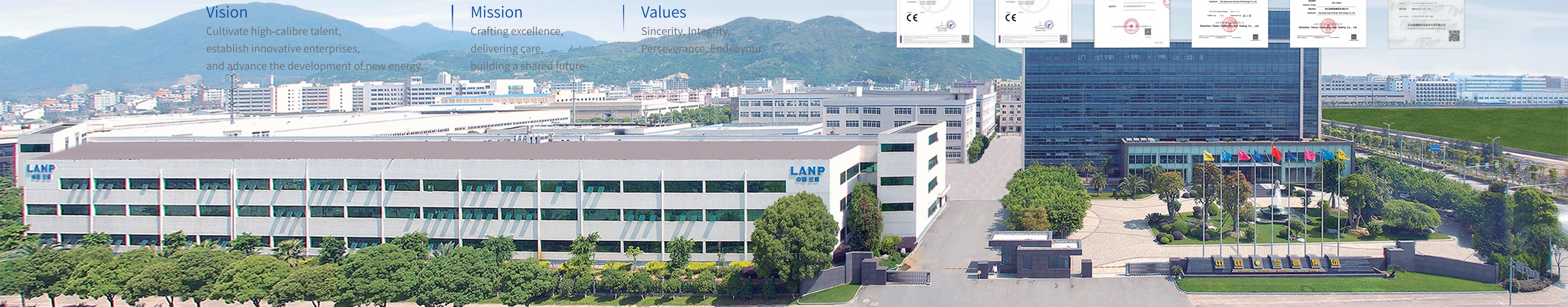
Cultivate high-calibre talent,
establish innovative enterprises,
and advance the development of new energy.

Mission

Crafting excellence,
delivering care,
building a shared future

Values

Sincerity, Integrity,
Perseverance, Endeavour



New Energy Smart Production Line

Lanp New Energy adheres to the production philosophy of intelligent manufacturing, achieving full process automation in cell module assembly. This encompasses key processes including OCV testing, tab cutting, CCS installation, bending and rolling, tab busbar welding, and traceable MAC systems. Through the continuous implementation of 'functional modularisation, mechanical standardisation, and component commonality', we consistently deliver genuinely short lead times.

Smart Factory Digital Workshop



Intelligent Inspection



Production Automation



AGV Transportation



Modular Automation

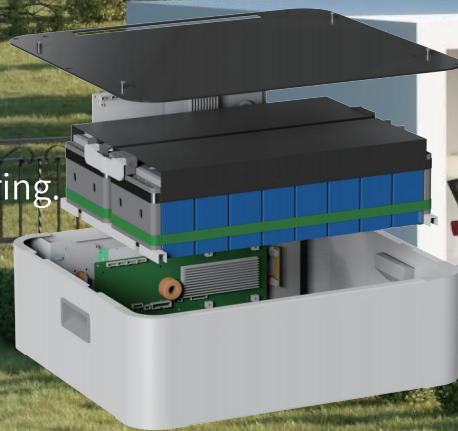
New Heights in Energy Storage Safety

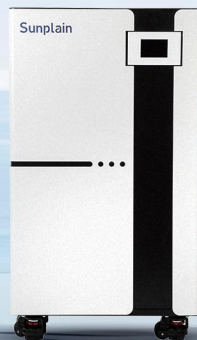
Lanp New Energy storage batteries utilise highly reliable lithium iron phosphate (LFP) cells with a cycle life of up to 10,000 cycles.

Featuring an industry-leading multi-layer safety protection design, they deliver exceptional performance and redefine the battery safety benchmark.

5 layer battery safety protection

- ① Comprehensive cell temperature monitoring.
- ② Integrated fire extinguishing module.
- ③ Heat-resistant fireproof insulation pad.
- ④ Aerogel insulation pad.
- ⑤ Pressure relief valve.





Sunplai

RESIDENTIAL
ENERGY STORAGE

Low-Voltage Battery Series



Extended Lifespan



Effortless Installation



Space-Efficient Design



Trend-Integrated

- XPB-512100
 - XPB-512150
 - XPB-512200
 - XPB-512280
 - XPB-512314
-
- IP20/IP54
 - Premium Grade A LFP Cells
 - More than 6,000-Cycle Lifespan
 - Supports Parallel Connection of Up to 15 Units
 - Built-in intelligent BMS (Battery Management System)

CE UL UN38.3 MSDS RoHS



	XPB-512100	XPB-512150	XPB-512200	XPB-512280	XPB-512314
Nominal Voltage	51.2VDC				
Voltage Range	43.2~57.6VDC				
Nominal Capacity	100Ah	150Ah	200Ah	280Ah	314Ah
Rated Energy	5.12kWh	7.68kWh	10.24kWh	14.336kWh	16.076kWh
Communication Protocol	CAN / RS485 / RS232 / WIFI / Bluetooth				
Number Of Parallel Connections Supported	1~15 PCS				
DOD	90%				
Cycle Life	≥6000 @ 25℃, 80% DOD				
Max. Charge / Discharge Current	100A			200A	
IP Rating	IP20(IP54)				
Installation Method	Wall-mounted				
Operating Temperature	0~55℃				
Storage Temperature	-20~55℃				
Humidity	≤80%				
Dimensions(L*W*H)	405*160*630 mm	705*247*530mm	555*160*820mm	530*267*800mm	530*267*800mm
Packaging Dimensions(L*W*H)	510*305*730mm	770*325*630mm	665*430*930mm	630*510*900mm	630*510*900mm
Net Weight	44kg	84kg	96kg	125kg	130kg

Low-Voltage Battery Series

- 
Extended Lifespan
- 
Portable
- 
Space-Efficient Design
- 
Trend-Integrated

- XPE-512280
- XPE-512314
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Supports Parallel Connection of Up to 15 Units
- Built-in intelligent BMS (Battery Management System)

CE UL UN38.3 MSDS RoHS



Model	XPE-512280		XPE-512314	
Nominal Voltage	51.2VDC			
Voltage Range	43.2~57.6VDC			
Nominal Capacity	280Ah		314Ah	
Rated Energy	14.336kWh		16.076kWh	
Communication Protocol	CAN / RS485 / RS232 / WIFI / Bluetooth			
Number Of Parallel Connections Supported	1~15 PCS			
DOD	90%			
Cycle Life	≥ 6000 @ 25℃, 80% DOD			
Max. Charge / Discharge Current	200A			
IP Rating	IP20 (IP65)			
Installation Method	Free-standing			
Operating Temperature	0~55℃			
Storage Temperature	-20~55℃			
Humidity	≤80%			
Dimensions(L*W*H)	530*250*850mm		470*250*800mm	
Packaging Dimensions(L*W*H)	630*470*950mm		570*470*950mm	
Net Weight	125kg		130kg	

High-Voltage Battery Series



Extended
Lifespan



Portable



Space-Efficient
Design



Trend-Integrated

- XPHVD-512100
- XPHVD-102450
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Supports up to 8/6-Layer Battery Pack Configuration
- Built-in intelligent BMS (Battery Management System)

CE UN38.3 MSDS



Model	XPHVD-512100	XPHVD-102450
Battery Pack Specifications		
Nominal Voltage	51.2V	102.4V
Nominal Capacity	100Ah	50Ah
Rated Energy	5.12kWh	
Max. Charge / Discharge Current	1C/100A	1C/50A
Product Dimensions(L*W*H)	550*500*171mm	
Packaging Dimensions(L*W*H)	545*510*300mm	
Net Weight	41kg	
Cycle Life	≥6000@25°C, 80% DOD	
Stacking Parameters		
Max. Stack Size	8 PCS	6 PCS
Nominal Voltage	409.6V	614.4V
Operating Voltage Range	345.6~460.8V	518.4~691.2V
Rated Energy	40.93kWh	30.72kWh
Dimensions(L*W*H)	550*500*1629mm	550*500*1287mm
Gross Weight	360kg	263kg
General Parameters		
IP Rating	IP20	
Installation Method	Stackable	
Communication Protocol	CAN / RS485 / WiFi(Optional)	
Operating Temperature	0~55°C	
Storage Temperature	-20~55°C	
Humidity	≤80%	

High-Voltage Battery Series


Extended Lifespan


Portable


Space-Efficient Design


Trend-Integrated

- HVXP-I024
- HVXP-1536
- HVXP-2048
- IP54
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Supports up to 5-layer battery pack stacking
- Built-in intelligent BMS (Battery Management System)

CE UL UN38.3 MSDS RoHS



Model	HVXP-1024	HVXP-1536	HVXP-2048
Single Battery Pack Energy	5.12kWh		
Battery Pack Voltage	102.4V		
Nominal Capacity	50Ah		
Cycle Life	≥ 6000 @ 25°C, 80% DOD		
Product Dimensions(L*W*H)	530*190*393mm		
Packaging Dimensions(L*W*H)	600*265*495mm		
Net Product Weight	40kg		
Overall Dimensions(L*W*H)	530*190*1186mm	530*190*1569mm	530*190*1952mm
Gross Weight	106kg	150kg	195kg
Nominal Voltage	204.8V	307.2V	409.6V
Rated Energy	10.24kWh	15.36kWh	20.48kWh
Operating Voltage	160~233.6V	240~350.4V	320~467.2V
Max. Discharge Current	40A		
Max. Charging Current	25A		
Operating Temperature	0~55°C		
Storage Temperature	-20~55°C		
IP Rating	IP54		
Humidity	≤ 80%		
Communication Protocol	CAN/RS485		

Domestic All-In-One Series



Smart & Effortless



Modular & Scalable



Space-Efficient
Design



Trend-Integrated

- XPC-5kW+5.12kWh
- XPC-5kW+10.24kWh
- XPC-5kW+15.36kWh
- XPC-5kW+20.48kWh
- XPC-5kW+25.6kWh

- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Supports battery packs with up to 15 layers
- Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS RoHS



Model	XPC-5k5		XPC-5k10		XPC-5k15		XPC-5k20		XPC-5k25	
Battery Pack Specifications										
Single Battery Pack Energy					5.12kWh					
Number of Battery Packs	1pc		2pcs		3pcs		4pcs		5pcs	
Total Energy	5.12kWh		10.24kWh		15.36kWh		20.48kWh		25.6kWh	
Nominal Voltage					51.2V					
Operating Voltage Range					43.2V~57.6V					
Standard Discharge Current					100A					
Standard Charge Current					50A					
Depth of Discharge (DOD)					90%					
Mounting Method					Stackable					
Battery Pack Dimensions (L*W*H)					550*500* 185mm					
Battery Pack Packaging Dimensions (L*W*H)					640*590*265mm					
Battery Pack Net Weight					43kg					
PV parameters										
Voltage					500VDC					
Operating Voltage Range					120~450VDC					
Input Power					5500W					
Max. Input Current					22A					
AC Parameters										
Max. Charging Current					30A					
Rated Input Voltage					220/230VAC					
Input Voltage Range					UPS: (170~280)VAC± 2%, APL: (90~280)VAC± 2%					
Frequency					50Hz/60Hz					
Max. Bypass Overload Current					30A					
Rated Output Voltage					230VAC					
Rated Output Power					5000W					
General Parameters										
Dimensions (L × W × H)	550*500*446mm		550*500*631mm		550*500*816mm		550*500*1001mm		550*500*1186mm	
IP Rating					IP20					
Communication Protocol					CAN / RS485 / RS232 / WIFI (Optional)					
Operating Temperature					0~55℃					
Storage Temperature					- 20~55℃					
Humidity					≤ 80%					

Domestic All-In-One Series

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IP54
- 

Intelligent
and user-friendly
- 

Space-Efficient
Design
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Trend-Integrated

- HPIXP-1024
- HPIXP-1536
- HPIXP-2048

- IP54
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Compatible with Off-Grid & Grid-Tied Systems
- Built-in intelligent BMS (Battery Management System)

CE UL UN38.3 MSDS



Model	HPIXP- 1024		HPIXP- 1536	HPIXP- 2048
Single Battery Pack Energy	5.12kWh			
Nominal Voltage	102.4V			
Product Dimensions	700*235*307mm			
Packaging Dimensions	790*325*402mm			
Product Net Weight	44kg			
Number of Battery Packs	2pcs	3pcs	4pcs	
Overall Product Dimensions (L*W*H)	700*235*1470mm	700*235*1772mm	700*235*2075mm	
Overall Product Net Weight	132kg	177kg	222kg	
Total Voltage	204.8V	307.2V	409.6V	
Rated Energy	10.24kWh	15.36kWh	20.48kWh	
Operating Voltage	172.8 ~ 230.4V	259.2 ~ 345.5V	345.6 ~ 460.8V	
Operating Temperature	0~55			
Storage Temperature	- 20 ~ 55			
IP Rating	IP54			
Cooling Method	Natural cooling			
Communication Protocol	CAN/WIFI			
PV input parameters				
Max. Power	15000W			
Max. Voltage	1000VDC			
MPPT Voltage Range	200 ~ 850VDC			
Max. Current per String	13A/13A			
AC Output/Input Parameters				
Standard Power	10000W			
Max. Output/Input Current	17A/25A			
Standard Frequency/Voltage	50/60Hz;400/380VAC			

Domestic All-In-One Series



Smart & Effortless



Mobility



Space-Efficient
Design



Trend-Integrated

- XPF- 3k256 -A
- XPF- 5k716 -A
- XPF- 5k803 -A
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Portable & Wall-Mountable Design
- Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS



Model	XPF- 3k256 -A		XPF- 5k716 -A	XPF- 5k803 -A
Battery Pack Specifications	25.6V100Ah		25.6V280Ah	25.6V314Ah
Nominal Voltage	25.6V			
Operating Voltage Range	21.6V ~ 28.8V			
Rated Energy	2.56kWh	7.168kWh	8.038kWh	
PV Input Parameters				
Max. PV Open-Circuit Voltage	160VDC		500VDC	
MPPT Voltage Range	30~ 128VDC		60~500VDC	
Max. Input Power	1600W		9000W	
Max. Charge/Discharge Current	50A		27A	
AC Output/Input Parameters				
Input/Output Voltage	220~240VAC		208/220/230/240VAC	
Selectable Voltage Range	170V ~280VAC(UPS) 90V ~280VAC(APL)/184V ~253VAC(VDE)		90-280V(APP MODE)/90-280V(GEN MODE)170-264V(UPS MODE)	
Input Current	14A		30A	
Output Current	17A (terminal)/10A (socket)		22.7A	
Frequency	50Hz/60Hz (auto-adaptive)		50/60Hz+0.1%	
Rated Output Power	3000W		5000W	
General Parameters				
Communication Protocol	RS485/WIFI			
Operating Altitude	≤ 2000m			
Cooling Method	Built-in fan			
Mounting Method	Wall-mounted or floor-standing			
IP Rating	IP20			
Cycle Life	≥ 6000 @ 25°C, 80% DOD			
Operating Temperature	0~55°C			
Storage Temperature	-20~55°C			
Humidity	≤ 80%			
Dimensions (L*W*H)	410*845* 195mm	500*985*180mm	500*985*180mm	
Packaging Dimensions (L*W*H)	510*945*315mm	610*1085*300mm	610*1085*300mm	
Net Weight	45kg	~80kg	~85kg	

Domestic All-In-One Series



Smart & Effortless



Portable



Space-Efficient
Design



Trend-Integrated

· XPF-5K512100-A

- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Portable & Wall-Mountable Design
- Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS



Model	XPF-5K512100-A
Battery Specifications	
Module Model	51.2V100Ah
Battery Type	LFP 1P16S
Nominal Capacity	5.12kWh
Nominal Voltage	51.2V
Operating Voltage	43.2-57.6V
Solar Charger	
Max. PV Array Open-Circuit Voltage	500VDC
MPPT Voltage Range	120~450VDC
Max. Solar Charging Power	6000W
Max. PV Input Current	22A
AC Input	
Voltage	230VAC
Selectable Voltage Range	UPS mode: 170~280Vac; APL mode: 90~280Vac
Frequency Range	50Hz/60Hz (auto-sensing)
Maximum AC Charging Current	40A
AC Output	
Rated Power	5000W
AC Voltage Regulation Range	200~240Vac
Inverter Efficiency	≥90%
Maximum Output AC Current	10A
Overall Parameters	
Storage Temperature	-10°C to 55°C (recommended)
Operating Humidity	≤95% (RH) non-condensing
Operating Temperature	0°C to 55°C
Operating Altitude	≤2000m
Cooling Method	Air-cooled
Mounting Method	Floor-standing installation
Ingress Protection Rating	IP20
Weight	~66kg
Dimensions	450mm × 350mm × 671mm
Design Life	10 years (at 25°C)
Cycle Life	>6000 cycles (at 25°C, 80% DOD)

Domestic All-In-One Series



Safe & Reliable



Eco-Friendly



Smart



Versatile Application

- XPF- 3k256 - B
- XPF- 5k512 - B

- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Portable Power Bank
- Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS



Model	XPF- 3k256 - B		XPF- 5k512 - B	
Product Specifications	3kW2.56kWh		5kW5.12kWh	
Nominal Voltage	25.6V		51.2V	
Rated Power	2.56kWh		5.12kWh	
PV Input Voltage Range	30~ 128VDC		120-500V	
PV Input Current	50A		40A	
AC Input/Output Voltage	220–240 VAC			
Frequency	50 Hz/60 Hz			
AC Input/Output Current	10 A			
LED Lighting	3 W			
Operating Temperature	0–50 °C			
Storage Temperature	-20–55 °C			
Humidity	≤ 80%			
Cooling Method	Built-in fan			
Mounting Method	Portable			
IP Rating	IP20			
Dimensions (L*W*H)	466*390*422(990)mm		466×390×646(990)mm	
Packaging Dimensions (L*W*H)	565*460*510mm		565*460*734mm	
Net Weight	35kg		70kg	

Low-Voltage Battery Series



Versatile Applications



Extra-long service life



Lightweight & Portable



IP65

- XPD-12850
- XPD-128100
- XPD-128150
- XPD-128200
- XPD-256100

- IP65
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Series Connection up to 48/51.2V
- Built-in intelligent BMS (Battery Management System)

CE UL FCC UN38.3 MSDS



Model	XPD- 12850	XPD- 128100	XPD- 128150	XPD- 128200	XPD- 256100
Nominal Voltage	12.8V				25.6V
Nominal Capacity	50Ah	100Ah	150Ah	200Ah	100Ah
Rated Energy	0.64kWh	1.28kWh	1.92kWh	2.56kWh	2.56kWh
Charge/Discharge Current	25A	50A	50A	100A	50A
Operating Voltage Range	10～14.6V				20～29.2V
Rated Voltage	12.8V				25.6V
Max. Charging Voltage	14.6V				29.2V
Cycle Life	≥ 6000 @25℃, 80%				
Dimensions (L*W*H)	330*172*216	256*165*210	532*207*215	532*207*215	532*207*215
Packaging Dimensions (L*W*H)	380*225*281	306*218*270	582*260*275	582*260*275	582*260*275
Net Weight	4.5kg	10kg	15kg	21kg	21kg
Operating Temperature	0～50℃				
Storage Temperature	- 20～55℃				
Humidity	≤ 80%				
IP Rating	IP65				

Low-Voltage Battery Series

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Extended Service Life
- 
Easy Installation
- 
Independent Maintenance
- 
Efficient Thermal Management

- XPA-256100
 - XPA-512100
 - XPA-512200
 - XPA-512280
 - XPA-512314
-
- Premium Grade A LFP Cells
 - More than 6,000-Cycle Lifespan
 - Supports Parallel Connection of Up to 15 Units
 - Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS RoHS



Model	XPA-256100	XPA-512100	XPA-512200	XPA-512280	XPA-512314
Nominal Voltage	25.6VDC	51.2VDC			
Operating Voltage Range	21.6 ~28.8VDC	43.2 ~57.6VDC			
Nominal Capacity	100Ah	100Ah	200Ah	280Ah	314Ah
Rated Energy	2.56kWh	5.12kWh	10.24kWh	14.336kWh	16.076kWh
Communication Protocol	CAN / RS485 / RS232 / WIFI / （Bluetooth）				
Number of Parallel Units Supported	1~15 PCS				
Depth of Discharge (DOD)	90%				
Cycle Life	≥ 6000 @ 25 °C , 80% DOD				
Max. Charge/Discharge Current	100A			200A	
IP Rating	IP20				
Mounting Method	Rack-mount or wall-mount				
Operating Temperature	0~55 °C				
Storage Temperature	- 20~55 °C				
Humidity	≤ 80%				
Product Dimensions (L*W*H)	484*330*165mm	484*425*165mm	520*773*165mm	484*750*240mm	484*750*240mm
Packaging Dimensions (L*W*H)	545*430*285mm	545*510*300mm	900*620*385mm	547*875*450mm	547*875*450mm
Product Net Weight	24kg	41kg	85kg	106kg	116kg

High-Voltage Battery Series



Safe & Reliable



Easy Installation



Independent Maintenance



Efficient Thermal Management

- XPG- 512100
- XPG- 512200
- XPG- 102450

- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Optional Battery Racks (Available)
- Built-in intelligent BMS (Battery Management System)

CE UL FC UN38.3 MSDS



Model	XPG- 512100		XPG- 512200		XPG- 102450
Battery Pack Specifications					
Nominal Voltage	51.2V		51.2V		102.4V
Nominal Capacity	100Ah		200Ah		50Ah
Rated Energy	5.12kWh		10.24kWh		5.12kWh
Max. Charging Current	1C/100A		0.5C/100A		1C/50A
Product Dimensions	421*480* 165 mm		773*560* 165mm		421*480* 180mm
Packaging Dimensions	545*510*300mm		900*620*385mm		545*510*300mm
Product Net Weight	41kg		85kg		41kg
Cycle Life	≥ 6000 @ 25°C, 80% DOD				
Stacking parameters					
Max. Stack Quantity	8 PCS	12 PCS	8 PCS	12 PCS	6 PCS
Nominal Voltage	409.6V	614.4V	409.6V	614.4V	614.4V
Operating Voltage	345.6 ~460.8V	518.4 ~691.2V	345.6 ~460.8V	518.4 ~691.2V	518.4 ~691.2V
Rated Energy	40.96kWh	61.44kWh	81.92kWh	122.88kWh	30.72kWh
Battery Rack Dimensions (L*W*H)	506*556* 1835mm	506*556*2410mm	826*636* 1723mm	826*636*2410mm	506*556* 1835mm
Battery Rack Packaging Dimensions (L*W*H)	546*596* 1875mm	546*596*2450mm	866*676* 1763mm	866*676*2450mm	546*596* 1875mm
Battery Rack Net Weight	75kg	98kg	95kg	130kg	75kg
General parameters					
IP Rating	IP20				
Mounting Method	机架式				
Communication Protocol	CAN / RS485 / WiFi（可选）				
Operating Temperature	0~55°C				
Storage Temperature	- 20~55°C				
Humidity	≤80%				



LANP

INDUSTRY AND COMMERCE
ENERGY STORAGE

ENERGY STORAGE

Integrated Energy Storage Cabinet Series



Superior Thermal
Management



Highly
Integrated
Design



Cost-Effective
Solution



Smart

- XPH-20kW50kWh
- XPH-30kW60kWh

- IP54 Rated for Outdoor Use
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- For Off-Grid & Grid-Tied Systems

CE UL FC UN38.3 MSDS



Model	XPH- 20kW50kWh		XPH- 30kW60kWh	
Battery Pack Specifications				
Battery Pack Energy	10.24kWh			
Number of Battery Packs	5PCS		6PCS	
Rated Energy	51.2kWh		61.4kWh	
Nominal Voltage	512V		614.4V	
Operating Voltage Range	432 ~ 576V		518.4 ~ 691.2V	
Humidity	≤ 80%			
Mounting Method	Rack-mounted			
Communication Protocol	CAN/RS485/WIFI(Optional)			
Battery Pack Dimensions	773*560* 165mm			
Battery Pack Packaging Dimensions	900*620*385mm			
Battery Pack Net Weight	85kg			
PV Input Parameters				
Max. Open-Circuit Voltage	1000VDC			
Initial Voltage	180VDC			
MPPT Voltage Range	150 ~ 850VDC			
Input Current	26+26A		36+36+36A	
Max. Input Current	39+39A		55+55+55A	
Input Power	26000W		39000W	
AC Output Input Parameters				
Rated Output/Input Current	30A		45A	
Rated Output/Input Voltage	220/380,230/400VAC			
Frequency	50Hz/60Hz(Adaptive)			
Rated Output Power	20000W		30000W	
Output Phase	three-phase			
Max. Bypass Overload Current	80A		200A	
General parameters				
Dimensions	1170* 1031* 1636mm			
Packaging Dimensions	1300* 1160* 1850mm			
Gross Weight	805kg		942kg	
IP Rating	IP54			
Operating Temperature	0~55℃			
Storage Temperature	- 20~55℃			
Cooling Method	Air-cooled/Natural cooling			

Integrated Energy Storage Cabinet Series



Superior Thermal Management Highly Integrated Design Cost-Effective Solution Smart

- XPJ-40KW/80kWh
- XPJ-50KW/100kWh
- IP54 Rated for Outdoor Use
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- For Off-Grid & Grid-Tied Systems
- Real-Time Remote Monitoring & Control
- Integrated intelligent EMS (Energy Management System)

CE UL FC UN38.3 MSDS RoHS



Model	XPJ-40KW/80kWh		XPJ-50KW/100kWh	
Battery Pack Specifications				
Module Model	51.2V200Ah			
Battery Type	LFP 2P128S		LFP 2P160S	
Nominal Capacity	81.92kWh		102.4kWh	
Nominal Voltage	409.6V		512V	
Operating Voltage	358.4~467.2V		448~584V	
Dimensions	520 (565) mm*730mm*145mm			
Photovoltaic				
Max. DC Input Power	80kW		96kW	
Max. DC Input Voltage	1000VDC			
Start-up Voltage	180V			
MPPT Voltage Range	150~850VDC			
PV Input Current	40+40+40+40A			
Max. PV Input Current	60+60+60+60A			
AC Input/Output				
Rated AC Input/Output Power	40kW		50kW	
Input/Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380, 230/400Vac			
AC Input/Output Rated Current	57A		72A	
Max. AC Input/Output Current	61A		76A	
Max. Continuous AC Pass-through Current	86A		145A	
Overall Parameters				
Communication Method	RS485, CAN, WiFi, Bluetooth			
Storage Temperature	-20℃~55℃(Recommended)			
Operating Humidity	≤95%(RH)No condensation			
Operating Temperature	Charging: 0℃ to 55℃ Discharging: -20℃ to 55℃			
Operating Altitude	≤2000m			
Cooling Method	Air-cooled			
Protection Rating	IP54			
Weight	~1110kg		~1280kg	
Dimensions	1142mm*951mm*1952mm			
Design Life	10 years (25℃)			
Cycle Life	>6000 cycles (25℃, 80% relative humidity)			

Energy Storage Integrated Air-Cooled Cabinet Series



Off-Grid
Capability



Highly
Integrated
Design



Cost-Effective
Solution



Smart

- XPI- ESS241-A
- XPI- GESS241-A

- IP54 Rated for Outdoor Use
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Off-grid/grid-connected systems
- Real-time remote monitoring
- Integrated intelligent EMS (Energy Management System)

CE UL FC UN38.3 MSDS RoHS



Model	XPI-ESS241-A		XPI-GESS241-A
AC Parameters			
AC Input/Output Voltage	400V		
AC Frequency	50/60Hz		
Grid Connection Type	3W+N+PE/3W+PE		
Max. Overload Capacity	110% (sustained), 120% (1 minute)		
DC Parameters			
DC/DC Bidirectional Converter Rated Power	/	120kW	
PCM Rated Power	/	170kVA	
ATS Rated Current	/	250A	
DC Voltage Range	/	600V~876V	
Battery Specifications			
Battery Pack Specifications	51.2V/314Ah/16.07kWh		
Battery Pack Dimensions	738.5*460*222mm(L*W*H)/110 kg		
Number of Battery Packs	15		
Max. Charging/Discharging Power	0.5P		
Battery Module Design Standards	IEC62619,EN61000-6-2,4,UN38.3		
System Parameters			
Cooling Method	Fan/Heat Exchanger/Air Conditioning		
Noise Level	<70dB		
IP Rating	IP54		
Operating Temperature Range	-20°C~50°C		
Weight	≈2500kg	≈2700kg	
Dimensions (W × D × H)	1563*1375*2340(±10)mm (Includes air conditioning and overhead rings)		1635*1250*2266 mm (Includes air conditioning and overhead rings)
Grid-Tied/Off-Grid Switching Capability	Manual switch		Supported
Communication Interfaces	RS485/CAN/Lan/Dry contact		
Isolation Method	Transformerless		

Integrated Liquid-Cooled Energy Storage Cabinet Series



Off-Grid
Capability



Highly
Integrated
Design



Cost-Effective
Solution



Smart

- XPI-ESS-261-L
- XPI-GESS-261-L

- IP54 Rated for Outdoor Use
- Premium Grade A LFP Cells
- More than 6,000-Cycle Lifespan
- Off-grid/grid-connected systems
- Real-time remote monitoring
- Integrated intelligent EMS (Energy Management System)

CE UL FC UN38.3 MSDS RoHS



Model	XPI-ESS-261-L		XPI-GESS-261-L
	AC parameters		
AC Input/Output Voltage	400V		
AC Frequency	50/60Hz		
Grid Connection Type	3W+N+PE/3W+PE		
Max. Overload Capacity	110% (sustained), 120% (1 minute)		
	DC parameters		
DC/DC Bidirectional Converter Rated Power	/	120kW	
PCM Rated Power	/	170kVA	
ATS Rated Current	/	250A	
DC Voltage Range	/	715V~910V	
	Battery specifications		
Battery Pack Specifications	166.4V/314Ah/52.2496kWh		
Battery Pack Dimensions	1172±2*808±1*245.2±2(mm)(L*W*H)/335 kg		
Number of Battery Packs	5		
Max. Charging/Discharging Power	0.5P		
Battery Module Design Standards	IEC62619,EN61000-6-2,4,UN38.3		
	System Parameters		
Cooling Method	Liquid cooling		
Noise Level	<70dB		
IP Rating	IP54		
Operating Temperature Range	-20°C~50°C		
Weight	≈2500kg	≈2750kg	
Dimensions (W*D*H)	1563*1375*2340(±10)mm (Includes air conditioning and overhead rings)		1554*1310*1993mm (With eyebolts)
Grid-Tied/Off-Grid Switching Capability	Supported		
Communication Interfaces	RS485/CAN/Lan/Dry contact		
Isolation Method	Transformerless		



LANP

HYBRID INVERTER

Single-Phase Hybrid Inverter STH 4-12kW

- STH-4KTL-HT-P
- STH-5KTL-HT-P
- STH-6KTL-HT-P
- STH-8KTL-HT-P
- STH-10KTL-HT-P
- STH-12KTL-HT-P



Photovoltaic conversion efficiency as high as 98.2%



Both grid-connected and off-grid terminals support 110% three-phase unbalanced output



The standby end supports up to 10 units in parallel operation to enhance system capacity



OLED display + dual-channel data via app View and manage with ease and efficiency



140~750V ultra-wide battery voltage range Compatible with higher-capacity batteries

Model		STH-5KTL-HT-P
PV Input Parameters	Max. Input Power (W)	8,000
	Start-up Voltage (V)	150
	Max. DC Input Voltage (V)	1,000
	Rated DC Input Voltage (V)	620
	MPPT Operating Voltage Range (V)	150-850
	Number of MPPT Units	2
	Number of Single-Channel MPPT Inputs	1
	Max. Input Current (A)	16/16
Battery Specifications	Max. Short-Circuit Current (A)	18/18
	Battery Type	Lithium battery (with BMS)
	Battery Communication Method	CAN / RS485
	Battery Voltage Range (V)	140-750
	Max. Charging/Discharging Current (A)	25/25
AC Parameters (Grid-Side)	Rated Current of Built-in Fuse (A)	63
	Rated Output Power (W)	5,000
	Max. Output Power (W)	5,500
	Max. Output Apparent Power (VA)	5,500
	Max. Input Apparent Power (VA)	10,000
	Max. Battery Charging Power (W)	5,000
	Rated Voltage (V)	3L/N/PE, 230/400V
	Grid Voltage and Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz
	Max. Output Current(A)	8.3
	Power Factor	0.8 advance... 0.8 lag
	Max. Total Harmonic Distortion DC Component	<3% @Rated power
	DC Component	< 0.5%In
AC Parameters (Off-Grid End)	UPS Switching Time	< 10ms
	Rated Output Voltage (V)	3L/N/PE, 230/400V
	Output Voltage Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz
	Max. Output Apparent Power (VA)	5,500
	Three-Phase Peak Overload Apparent Power (VA)	10,000, 60s
	Single-Phase Peak Output Apparent Power (VA)	2,100
	Total Voltage Harmonic Distortion	<3% @Linear load
	Max. Photovoltaic Conversion Efficiency	98.1%
Efficiency Parameters	European Efficiency	97.3%
	Max. Battery Charging Conversion Efficiency	97.2%
	Max. Battery Discharge Conversion Efficiency	97.2%
	Dimensions (L*W*H)	550*410*175mm
General Parameters	Weight (KG)	26-28
	Ingress Protection Rating	IP65
	Standby Power Consumption (W)	<15
	Topology	Transformerless
	Operating Temperature (°C)	-30-60
	Relative Humidity (%)	0-100
	Working Altitude (m)	4000(load reduction @ > 3000)
	Cooling Method	Natural air cooling
	Noise Index (dB)	<25
	Display	OLED & LED
	Correspondence	WiFi / LAN(Optional)
Compliant With Standards		IEC62109, EN61000, C10/C11, VDE 4105, UNE217001, UNE217002, RD647, RD1699, CEI021, G99, EN62477, NRS097-2-1, EN50549, NRS097-2-1, UE2016/631,TOR Erzeuger Type A, OVE-Richtlinie R 25

*Product specifications are provided for the STH-5KTL-HT-P model as an example; specifications for other models may be found in the product manual. The above represents only a partial list of specifications; for comprehensive product details, please consult the manual.

Three-Phase Hybrid Inverter STH 3-8kW

- STH-3KTL-HSS
- STH-3.6KTL-HSS
- STH-4.2KTL-HS
- STH-4.6KTL-HS
- STH-5KTL-HS
- STH-6KTL-HS
- STH-7KTL-HS
- STH-8KTL-HS



Photovoltaic conversion
efficiency as high as 97.6%



Multiple power ratings from 3 to 8 kW
Suitable for a wide range of applications



Robust load adaptation capability
Supports stable access for diverse loads



85-500V ultra-wide battery voltage range
Compatible with
higher-capacity batteries



Rapid charge and discharge
currents up to 30A
Meeting the demands of higher energy consumption
and energy trading

Model		STH-5KTL-HS
PV Input Parameters	Max. Input Power (W)	8,000
	Start-up Voltage (V)	80
	Max. DC Input Voltage (V)	600
	Rated DC Input Voltage (V)	360
	MPPT Operating Voltage Range (V)	100-550
	Number of MPPT Units	2
	Number of Single-Channel MPPT Inputs	1
	Max. Input Current(A)	15/15
Battery Specifications	Max. Short-Circuit Current (A)	20/20
	Battery Type	Lithium battery (with BMS)
	Battery Communication Method	CAN /RS485
	Battery Voltage Range (V)	85-500
	Max. Charging/Discharging Current (A)	30/30
	Rated Current of Built-in Fuse (A)	63
	Rated Output Power (W)	5,000
	Max. Output Power (W)	5,500
AC Parameters (Grid-Side)	Max. Output Apparent Power (VA)	5,500
	Max. Input Apparent Power (VA)	10,000
	Max. Battery Charging Power (W)	5,000
	Rated Voltage(V)	L/N/PE,220/230/240V
	Grid Voltage and Frequency (Hz)	50/60
	Max. Output Current(A)	25/21.7
	Power Factor	0.8 advance... 0.8 lag
	Max. Total Harmonic Distortion DC Component	<3%@Rated power <0.5%In
AC Parameters (Off-Grid End)	Max. Output Power(W)	5,500
	Standby Output Apparent Power(VA)	5,000
	Max. Apparent Power(VA)	5,500
	Standby Output Current(A)	21.7
	Max. Output Current(A)	25/21.7
	UPS Switching Time	<10ms
	Rated Output Voltage(V)	L/N/PE, 220/230/240
	Rated Alternating Current Frequency(Hz)	50/60
Efficiency Parameters	Peak Output Apparent Power(VA)	6,500,60s
	Total Voltage Harmonic Distortion	<3%@Linear load
	Max. Photovoltaic Conversion Efficiency	97.6%
	European Efficiency	97.0%
	Max. Battery Charging Conversion Efficiency	96.6%
General Parameters	Max. Battery Discharge Conversion Efficiency	96.6%
	Dimensions (L*W*H)	550*410*175mm
	Weight (KG)	26
	Ingress Protection Rating	IP65
	Standby Power Consumption (W)	<15
	Topology	Transformerless
	Operating Temperature (°C)	-30-60
	Relative Humidity (%)	0-100
	Working Altitude (m)	4000 (load reduction @ >3000)
	Cooling Method	Natural air cooling
Compliant with Standards	Noise Index (dB)	<25
	Display	OLED &LED
	Correspondence	WiFi / LAN (Optional)
		IEC62109, EN61000, C10/C11, VDE 4105, UNE217001, UNE217002, RD647, RD1699, CEI021, G99, EN62477, NRS097-2-1, EN50549, NRS097-2-1, UE2016/631, TOR ErzeugerType A, OVE-Richtlinie R 25

*Product specifications are provided for the STH-5KTL-HS model as an example; for other models, please refer to the product manual.
The above represents only a partial list of specifications; for detailed product specifications, please consult the manual.

Hybrid Inverter STH 15-33kW

- STH-15KTL-HT
- STH-17KTL-HT
- STH-20KTL-HT
- STH-25KTL-HT
- STH-29.9KTL-HT
- STH-30KTL-HT
- STH-33KTL-HT



Maximum efficiency
may reach 98.2 per cent



Both grid output and standby output
can provide up to 110% phase imbalance output.



Enable rapid and convenient data verification
and debugging
via the app or OLED interface



200–800V wide voltage battery connection range
Enables greater energy storage capacity
and optimises self-sufficiency rate



Uninterruptible Power Supply
Switches to off-grid mode
within 10 milliseconds



Model		STH-15KTL-HT
Photovoltaic Input	Max. Input Power (W)	22500
	Start-up Voltage (V)	190
	Max. DC Input Voltage (V)	1000
	Rated DC Input Voltage (V)	620
	MPPT Operating Voltage Range (V)	200-850
	Max. Input Current (A)	32/32
	Max. Short-Circuit Current (A)	40/40
Battery Specifications	Battery Type	Lithium battery (with BMS)
	Battery Communication Method	CAN/RS485
	Battery Voltage Range (V)	200-800
	Max. Charging/Discharging Current (A)	50/50
Output (grid-connected)	Rated Output Power(W)	15000
	Max. Output Power(W)	16500
	Rated Output Voltage(V)	3L/N/PE 230(400)
	Rated Alternating Current Frequency(Hz)	50/60
	Rated Output Current(A)	21.7
	Max. Output Current(A)	25
	Power Factor	0.8 advance...0.8 lag
	Max. Total Harmonic Distortion DC Component	<3%@Rated output power
	Max. Total Harmonic Distortion	<0.5%In
	Rated Output Power(W)	15000
Output (Reserve)	Max. Output Power(W)	16500
	Standby Output Rated Current(A)	21.7
	Max. Output Current(A)	25
	UPS Switching Time	<10ms
	Rated Output Voltage(V)	3L/N/PE 230(400)
	Rated Alternating Current Frequency(Hz)	50/60
	Voltage Harmonic Distortion	<3%@Linear load
Efficiency	Maximum Efficiency	98.10%
General Parameters	Dimensions (L*W*H)	640*430*280mm
	Weight (KG)	47
	Ingress Protection Rating	IP65
	Standby Power Consumption (W)	<15
	Topology	Transformerless
	Operating Temperature (°C)	-30-60
	Relative Humidity (%)	0-100
	Working Altitude (m)	3000
	Cooling Method	Smart Fan Cooling
	Noise Index (dB)	<50
Compliance Certification	Display	OLED & LED
	Correspondence	WiFi/LAN(Optional)
		IEC62109 IEC62116 VDE4105 VDE0126 AS4777 RD1699 NBR16149 IEC61727 IEC60068 IEC61683 EN50549 EN61000 NRS097-2-1 IEC/EN 62477-1

*Product specifications are provided for the STH-15KTL-HT model as an example; specifications for other models may be found in the product manual.
The above represents only a partial list of specifications; detailed product specifications should also be consulted in the manual.

Hybrid Photovoltaic Storage Inverter 3-6Ks-AH2

- HN3KS-AH2
- HN3K6S-AH2
- HN4KS-AH2
- HN5KS-AH2
- HN6KS-AH2



Extremely wide
MPT range



2-channel
MPPT



AC and DC Side
Level II SurgeProtective Device



MPPT input current
of 19A per string



IP66
Protection



Integrated minimalist design

Model	HN6KS-AH2
Max. PV Input Power (kW)	9
Max. PV Open-Circuit Voltage (Vdc)	550
MPPT Tracking Range (Vdc)	80-520
Max. Input Current Per MPPT (A)	19/19
Short-Circuit Current Per MPPT (A)	25/25
Number of MPPT Units/Number of Strings Per MPPT	2/1
Rated Output Power (kW)	6
Rated Output Current (A)	26.1
Rated Voltage/Frequency	230V(176V~280V),50/60Hz,L+N+PE
Switching Time (ms)	<20
Power Factor	0.8 advance - 0.8 lag
Overload Capacity	110%,10s/150%,1s/200%,100ms
Max. Efficiency	96.13%
Max. Battery Charge/Discharge Efficiency	94.60%
Recommended Battery Voltage (V)	48
Max. Battery Charge/Discharge Current (A)	120/120
Battery Type	Lithium-ion battery/Lead-acid battery
Protection and Functionality	DC switch, DC reverse polarity protection, Type II DC/AC surge protection, AC overvoltage/short-circuit protection, earth fault monitoring, anti-islanding protection, residual current monitoring, insulation resistance monitoring, peak and off-peak time settings
Battery Management System (BMS)	RS485;CAN
Energy Management System (EMS)/Electricity Meter	RS485
Monitoring and Communication	WiFi/Ethemet
Protection Rating	IP66
Cooling Method	Natural cooling
Safety Standards	IEC/EN62109-1/-2
Electromagnetic Compatibility (EMC) Standards	IEC/EN61000-6-1/-2/-3/-4
Grid Connection Standards	IEC61727; Europe: EN50549; Belgium: C10/11; Spain: NTS-631; Italy: CEI 021

*Product specifications are provided for the HN6KS-AH2 model as an example; for other models, please refer to the product manual. The above represents only a partial list of specifications; for detailed product specifications, please consult the manual.

LANP New Energy System Portfolio Recommendations



System Configuration #1
Solar PV Capacity 40 kWp
Inverter Rated Power 25 kW
Energy Storage Capacity 50 kWh

System Configuration #2
Solar PV Capacity 30 kWp
Inverter Rated Power 25 kW
Energy Storage Capacity 45 kWh

System Configuration #3
Solar PV Capacity 25 kWp
Inverter Rated Power 20 kW
Energy Storage Capacity 35 kWh

System Configuration #4
Solar PV Capacity 20 kWp
Inverter Rated Power 15 kW
Energy Storage Capacity 30 kWh

System Configuration #5
Solar PV Capacity 12 kWp
Inverter Rated Power 15 kW
Energy Storage Capacity 20 kWh

System Configuration #6
Solar PV Capacity 12 kWp
Inverter Rated Power 10 kW
Energy Storage Capacity 15 kWh

System Configuration #7
Solar PV Capacity 10 kWp
Inverter Rated Power 8 kW
Energy Storage Capacity 10 kWh

System Configuration #8
Solar PV Capacity 6 kWp
Inverter Rated Power 5 kW
Energy Storage Capacity 10 kWh