

# Sunplain

ZHEJIANG XUPU NEW ENERGY TECHNOLOGY CO.,LTD

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# Sunplain

Energy Storage  
Product Brochure

Xupu New Energy Technology

# Company Profile

Zhejiang xupu New Energy Technology Co., Ltd., headquartered in Yueqing, Zhejiang Province, is an innovative enterprise specializing in battery design, R & D, production, sales and service.

## Vision

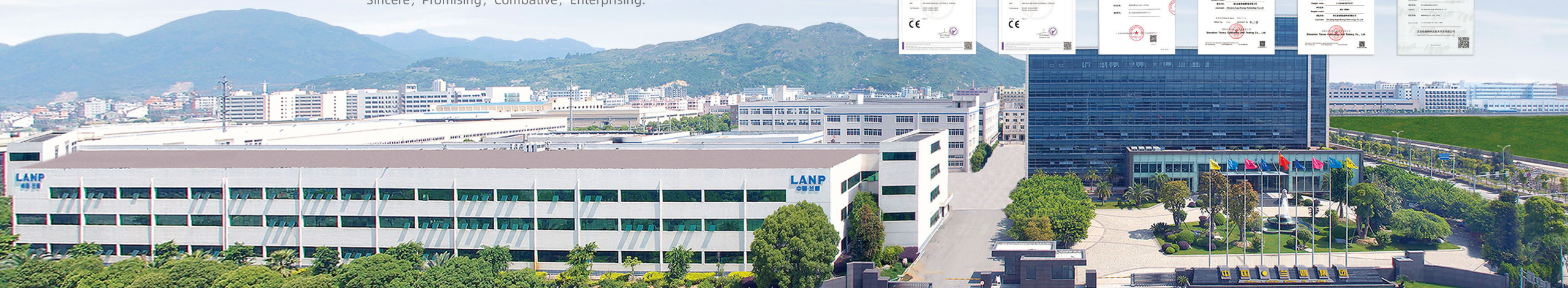
Cultivate top talents, Construct a Creative business Enterprise, Promote the development of new energy.

## Mission

Intelligence creates quality, Whole-hearted service, Win the future together.

## Values

Sincere, Promising, Combative, Enterprising.



## Automatic production line

Adhering to the production concept of intelligent manufacturing, ZHEJIANG XUPU NEW ENERGY TECHNOLOGY CO.,LTD has realized the automation of the whole process of cell module assembly, which covers OCV detection, tab cutting, CCS installation, bending and rolling, tab Busbar welding, traceable MAS system, etc mainstream technology ,continues to realize the real short delivery cycle through "functional modularization, mechanism standardization, and parts generalization".

## Intelligent Factory Digital Workshop



Intelligent Detection



Module Automation



AGV Transportation



Welding Automation

## Battery Series



Long Life



Easy Mounting



Space Saving



Home Appliance Style



- XPB-512100
- XPB-512150
- XPB-512200
- XPB-512280

- IP20/IP54
- All new grade A cell LFP battery
- 6000 times circle life
- Supports parallel use of ≤15 batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPB-512100	XPB-512150	XPB-512200	XPB-512280
Standard Voltage	51.2VDC			
Voltage Range	43.2~57.6VDC			
Norminal Capacity	100Ah	150Ah	200Ah	280Ah
Rated Energy	5.12kWh	7.68kWh	10.24kWh	14.336kWh
Communication	CAN / RS485 / RS232 / WIFI / Blue Tooth			
Cell Self-Discharge	<5 % / Month			
Modules Connection	1 ~ 15 in Parallel			
DOD	90%			
Cycle Life	≥6000 @ 25°C, 80% DOD			
Max Charge&Discharge Current	100A			200A
Ingress Protection	IP20(IP54)			
Installation	Wall			
Working Temperature	0~55°C			
Storage Temperature	-20~55°C			
Humidity	≤80%			
Product Dimenstion	410*592*160mm	705*530*247mm	555*820*200mm	530*800*267mm
Package Dimension	495*680*280mm	770*630*325mm	635*900*300mm	630*900*510mm
Net Weight	44kg	84kg	96kg	125kg

# Battery Series



Long Life



Mobility



Space Saving



Home Appliance  
Style



- XPE-512280
- XPE-512300
- XPE-512320

- All new grade A cell LFP battery
- 6000 times circle life
- Supports parallel use of ≤15 batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPE-512280	XPE-512300	XPE-512320
Standard Voltage	51.2VDC		
Voltage Range	43.2~57.6VDC		
Norminal Capacity	280Ah	300Ah	320Ah
Rated Energy	14.336kWh	15.36kWh	16.384kWh
Communication	CAN / RS485 / RS232 / WIFI / Blue Tooth		
Cell Self-Discharge	<5 % / Month		
Modules Connection	1 ~ 15 in Parallel		
DOD	90%		
Cycle Life	≥6000 @ 25°C, 80% DOD		
Max Charge&Discharge Current	200A		
Ingress Protection	IP20		
Installation	Floor Standing		
Working Temperature	0~55°C		
Storage Temperature	-20~55°C		
Humidity	≤80%		
Product Dimenstion	850*530*250mm		
Package Dimenstion	1000*630*470mm		
NetWeight	125kg	130kg	135kg

# High Voltage Battery Series



Long Life



Mobility



Space Saving



Home Appliance  
Style



- XPHVD-512100
- XPHVD-102450

- All new grade A cell LFP battery
- 6000 times circle life
- Supports stacking 8 batteries or 6batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPHVD-512100	XPHVD-102450
<b>Battery</b>		
Standard Voltage	51.2V	102.4V
Normal Capacity	100Ah	50Ah
Rated Energy	5.12kWh	
Max Charge-Discharge Rate	1C/100A	1C/50A
Product Dimension	550*500*171mm	
Package Dimension	545*510*300mm	
Net Weight	41kg	
Cycle Life	≥6000 @ 25°C, 80% DOD	
<b>Stacking Parameters</b>		
Max Stacking Quantity	8 PCS	6 PCS
Standard Voltage	409.6V	614.4V
Working Voltage	345.6 ~ 460.8V	518.4 ~ 691.2V
Rated Energy	40.93kWh	30.72kWh
Total Product Dimension	550*500*1629mm	550*500*1287mm
Net Weight	360kg	263kg
<b>General Parameters</b>		
Ingress Protection	IP20	
Installation	Stacked	
Communication	CAN / RS485/WiFi(Optional )	
Working Temperature	0 ~ 55°C	
Storage Temperature	-20 ~ 55°C	
Humidity	≤80%	

# High Voltage Battery Series



Long Life



IP54



Space Saving



Home Appliance  
Style



- HVXP-1024
- HVXP-1536
- HVXP-2048

- IP54
- All new grade A cell LFP battery
- 6000 times circle life
- Supports stacking  $\leq 5$  batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	HVXP -1024	HVXP -1536	HVXP -2048
Single Module Capacity	5.12kWh		
Standard Voltage	102.4V		
Norminal Capacity	50Ah		
Cycle Life	$\geq 6000 @ 25^{\circ}\text{C}, 80\% \text{ DOD}$		
Product Dimenstion	530*190*393mm		
Package Dimenstion	600*265*495mm		
Net Weight	45kg		
Total Product Dimenstion	530*190*1186mm	530*190*1569mm	530*190*1952mm
Total Net Weight	106kg	150kg	195kg
Nominal Voltage	204.8V	307.2V	409.6V
Rated Energy	10.24kWh	15.36kWh	20.48kWh
Working Voltage	160 ~ 233.6V	240 ~ 350.4V	320 ~ 467.2V
Max Discharge Current	40A		
Max Charge Current	25A		
Working Temperature	0 ~ 55 $^{\circ}\text{C}$		
Storage Temperature	-20 ~ 55 $^{\circ}\text{C}$		
Ingress Protection	IP54		
Humidity	$\leq 80\%$		
Communication	CAN/RS485		

# All in one energy storage system Series



Intelligent



Mobility



Space Saving



Home Appliance  
Style



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

- All new grade A cell LFP battery
- 6000 times circle life
- Supports stacking ≤15 batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPC 5kW+5.12kWh	XPC 5kW+10.24kWh	XPC 5kW+15.36kWh	XPC 5kW+20.48kWh	XPC 5kW+25.6kWh
<b>Battery</b>					
Single Module Capacity	5.12kWh				
Module Number	1PCS	2PCS	3PCS	4PCS	5PCS
Total Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Standard Voltage	51.2V				
Working Voltage Range	43.2V~57.6V				
Standard discharge Current	100A				
Standard Charge Current	50A				
DOD	90%				
Installation	Stacked				
Product Dimension(Module)	550*500*185mm				
Package Dimension(Module)	640*590*265mm				
Net Weight(Module)	43kg				
<b>PV Input</b>					
Voltage	500VDC				
Working Voltage Range	120~450VDC				
Input Power	5500W				
Max Input Current	22A				
<b>AC Output/Input</b>					
Max Charging Current	30A				
Rated Input Voltage	220/230VAC				
Rated 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				
<b>General Parameters</b>					
Total Product Dimension	550*500*446mm	550*500*631mm	550*500*816mm	550*500*1001mm	550*500*1186mm
Ingress Protection	IP20				
Communication	CAN/RS485/RS232/WIFI (Optional)				
Working Temperature	0~55°C				
Storage Temperature	-20~55°C				
Humidity	≤80%				

# All in one energy storage system Series



Intelligent



Mobility



Space Saving



Home Appliance  
Style



- XPC-10kW+10.24kWh
- XPC-10kW+15.36kWh
- XPC-10kW+20.48kWh
- XPC-10kW+25.6kWh

- All new grade A cell LFP battery
- 6000 times circle life
- Supports stacking ≤15 batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPC 10kW+10.24kWh	XPC 10kW+15.36kWh	XPC 10kW+20.48kWh	XPC 10kW+25.6kWh
<b>Battery</b>				
Single Module Capacity	5.12kWh			
Module Number	2PCS	3PCS	4PCS	5PCS
Total Energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Standard Voltage	51.2V			
Working Voltage Range	43.2V~57.6V			
Standard discharge Current	100A			
Standard Charge Current	50A			
DOD	90%			
Installation	Stacked			
Product Dimension(Module)	550*500*185mm			
Package Dimension(Module)	640*590*265mm			
Net Weight(Module)	43kg			
<b>PV Input</b>				
Voltage	500VDC			
Working Voltage Range	90~450VDC			
Input Power	PV1:5400W / PV2:5400W			
Max Input Current	PV1:18A / PV2: 18A			
<b>AC Output/Input</b>				
Max Charging Current	50A			
Rated Input Voltage	220/230VAC			
Rated Input Voltage Range	170~280VAC			
Frequency	50Hz / 60Hz			
Max Bypass Overload Current	50A			
Rated Output Voltage	230VAC			
Rated Output Power	10200W / 3400W(Battery mode)			
<b>General Parameters</b>				
Total Product Dimension	550*500*631mm	550*500*816mm	550*500*1001mm	550*500*1186mm
Ingress Protection	IP20			
Communication	CAN / RS485 / RS232 / WIFI (Optional)			
Working Temperature	0~55°C			
Storage Temperature	-20~55°C			
Humidity	≤80%			

# All in one energy storage system Series



IP54



Intelligent



Space Saving



Home Appliance  
Style



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

- IP54
- All new grade A cell LFP battery
- 6000 times circle life
- On grid/Off grid
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	HPIXP-1024	HPIXP-1536	HPIXP-2048
Single Module Capacity	5.12kWh		
Standard Voltage	102.4V		
Product Dimension	700*235*307mm		
Package Dimension	790*325*402mm		
Net Weight	44kg		
Total Product Dimension	700*235*1470mm	700*235*1772mm	700*235*2075mm
Total Net Weight	132kg	177kg	222kg
Nominal Voltage	204.8V	307.2V	409.6V
Rated Energy	10.24kWh	15.36kWh	20.48kWh
Working Voltage	172.8 ~ 230.4V	259.2 ~ 345.5V	345.6 ~ 460.8V
Working Temperature	0 ~ 55°C		
Storage Temperature	-20 ~ 55°C		
Ingress Protection	IP54		
Cooling	Natural		
Communication	CAN/WIFI		
<b>PV Input</b>			
Max Power	15000W		
Max Voltage	1000VDC		
MPPT Voltage Range	200 ~ 850VDC		
Max Input Current/Per String	13A/13A		
<b>AC Output/Input</b>			
Nominal Power	10000W		
Max Output/Input Current	17A/25A		
Nominal Output/Input	50/60Hz;400/380VAC		

# All In One System Series



Intelligent



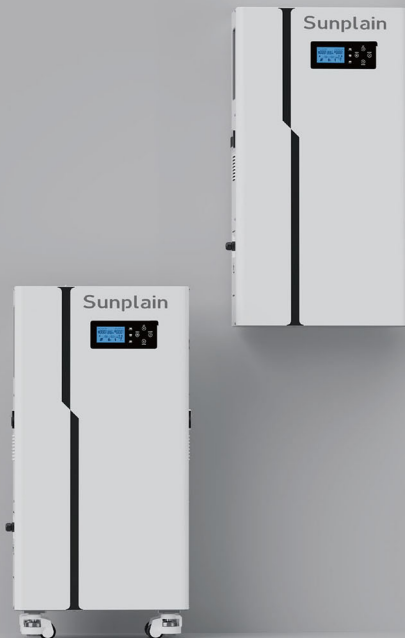
Mobility



Space Saving



Home Appliance  
Style



• XPF-3kW+2.56kWh-A

- All new grade A cell LFP battery
- 6000 times circle life
- Can be both floor standing and wall mounted
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPF-256100-A
<b>Battery</b>	
Batter Type	25.6V100Ah
Rated Voltage	25.6V
Working Voltage Range	21.6V ~ 28.8V
Rated Energy	2.56kWh
<b>PV Input</b>	
Max PV OCV	160VDC
MPPT Voltage Range	30 ~ 128VDC
Max Input Power	1600W
Max Charge-Discharge Current	50A
<b>AC Output/Input</b>	
Output/Input Voltage	220 ~ 240VAC
Optional Voltage Range	170V ~ 280VAC(UPS)/90V ~ 280VAC(APL)/184V ~ 253VAC(VDE)
Input Current	14A
Output Current	17A(Term)/10A (Outlet)
Frequency	50Hz/60Hz(Self-adaption)
Rated Output Power	3000W
<b>General Parameters</b>	
Communication	RS485/ WIFI
Working Altitude	≤2000m
Cooling	Built In Fan
Installation	Wall or Floor Standing
Ingress Protection	IP20
Cycle Life	≥6000 @ 25°C, 80% DOD
Working Temperature	0 ~ 55°C
Storage Temperature	-20 ~ 55°C
Humidity	≤80%
Product Dimension	410*845*195mm
Package Dimension	510*945*315mm
Net Weight	45kg

# All In One System Series



Safe



Environmental  
Friendly



Intelligent



Multi  
Scenarios



· XPF-3kW+2.56kWh-B

- All new grade A cell LFP battery
- 6000 times circle life
- Portable power supply
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPF-256100-B
Type	3kW2.56kWh
Standard Voltage	25.6V
Rated Energy	2.56kWh
PV Input Voltage Range	30 ~ 128VDC
PV Input Current	50A
AC Input/Output Voltage	220 ~ 240VAC
Frequency	50Hz/60Hz
AC Input/Output Current	10A
LED Lighting Lamp	3W
Working Temperature	0 ~ 50°C
Storage Temperature	-20 ~ 55°C
Humidity	≤80%
Cooling	Built In Fan
Installation	Portable
Ingress Protection	IP20
Product Dimension	466*390*422(990)mm
Package Dimension	565*460*510mm
Net Weight	35kg

# Battery Series



Multi Scenarios



Long Life



Light Weight



IP65



- XPD-12850
- XPD-128100
- XPD-128150
- XPD-128200
- XPD-256100
- XPD-48100

- IP65
- All new grade A cell LFP battery
- 6000 times circle life
- Supports concatenation to 48/51.2v
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPD-12850	XPD-128100	XPD-128150	XPD-128200	XPD-256100	XPD-48100
Standard Voltage	12.8V				25.6V	48V
Norminal Capacity	50Ah	100Ah	150Ah	200Ah	100Ah	100Ah
Rated Energy	0.64kWh	1.28kWh	1.92kWh	2.56kWh	2.56kWh	4.8kWh
Charge-Discharge Current	25A	50A	50A	100A	50A	50A
Working Voltage Range	10 ~ 14.6V				20 ~ 29.2V	37.5 ~ 54.75V
Standard Voltage	12.8V				25.6V	48V
Max Charge Voltage	14.6V				29.2V	54.75V
Cycle Life	≥6000 @ 25°C, 80% DOD					
Product Dimenstion(mm)	330*172*216	330*172*216	532*207*215	532*207*215	345*190*245	520*267*220
Package Dimenstion(mm)	380*225*281	380*225*281	582*260*275	582*260*275	395*240*305	570*317*280
Net Weight	4.5kg	10kg	15kg	21kg	21kg	33kg
Working Temperature	0 ~ 50°C					
Storage Temperature	-20 ~ 55°C					
Humidity	≤80%					
Ingress Protection	IP65					

# Battery Series



Long Life



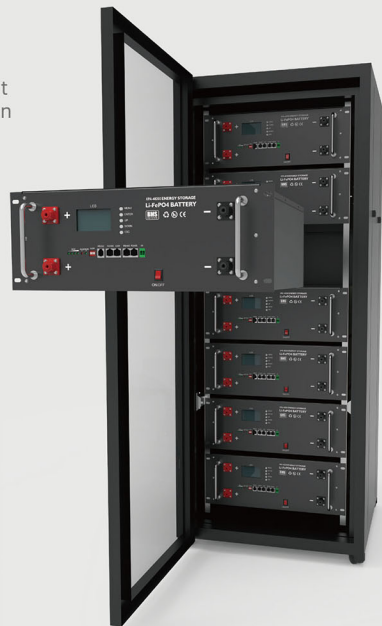
Easy Mounting



Independent Maintenance



Good Heat Dissipation



- XPA-256100
- XPA-512100
- XPA-512200
- XPA-512280

- All new grade A cell LFP battery
- 6000 times circle life
- Supports parallel use of  $\leq 15$  batteries
- High class of safety with built-in BMS protection

CE UL FC UN38.3 MSDS

Model	XPA-256100	XPA-512100	XPA-512200	XPA-512280
Standard Voltage	25.6VDC	51.2VDC		
Voltage Range	21.6~ 28.8VDC	43.2~ 57.6VDC		
Norminal Capacity	100Ah	100Ah	200Ah	280Ah
Rated Energy	2.56kWh	5.12kWh	10.24kWh	14.336kWh
Communication	CAN / RS485 / RS232 / WIFI / Blue Tooth			
Cell Self-Discharge	<5 % / Month			
Modules Connection	1 ~ 15 in Parallel			
DOD	90%			
Cycle Life	$\geq 6000$ @ 25°C, 80% DOD			
Max Charge&Discharge Current	100A			200A
Ingress Protection	IP20			
Installation	Cabinet or Wall			
Working Temperature	0~55 °C			
Storage Temperature	-20~55 °C			
Humidity	$\leq 80\%$			
Product Dimenstion	484*330*165mm	484*420*165mm	520*773*164.5mm	484*750*240mm
Package Dimenstion	545*430*285mm	545*510*300mm	900*620*385mm	547*875*450mm
Net Weight	24kg	41kg	85kg	106kg

# High Voltage Battery Series



Safe



Easy Mounting



Independent Maintenance



Good Heat Dissipation



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

- All new grade A cell LFP battery
- 6000 times circle life
- This series has shelves to choose
- High class of safety with built-in BMS protection

CE UK FC UN38.3 MSDS

Model	XPG-512100		XPG-512200		XPG-102450
<b>Battery</b>					
Standard Voltage	51.2V		51.2V		102.4V
Norminal Capacity	100Ah		200Ah		50Ah
Rated Energy	5.12kWh		10.24kWh		5.12kWh
Max Charge-Discharge Rate	1C/100A		0.5C/100A		1C/50A
Product Dimenstion	421*480*165mm		773*560*165mm		421*480*180mm
Package Dimension	545*510*300mm		900*620*385mm		545*510*300mm
Net Weight	41kg		85kg		41kg
Cycle Life	≥6000 @ 25°C, 80% DOD				
<b>Stacking Parameters</b>					
Max Stacking Quantity	8 PCS	12 PCS	8 PCS	12 PCS	6 PCS
Standard Voltage	409.6V	614.4V	409.6V	614.4V	614.4V
Working Voltage	345.6 ~ 460.8V	518.4 ~ 691.2V	345.6 ~ 460.8V	518.4 ~ 691.2V	518.4 ~ 691.2V
Rated Energy	40.93kWh	61.44kWh	81.92kWh	122.88kWh	30.72kWh
Product Dimension of the Shelf	506*556*1835mm	506*556*2410mm	826*636*1723mm	826*636*2410mm	506*556*1835mm
Package Dimension of the Shelf	546*596*1875mm	546*596*2450mm	866*676*1763mm	866*676*2450mm	546*596*1875mm
Cabinet Weight	75kg	98kg	95kg	130kg	75kg
<b>General Parameters</b>					
Ingress Protection	IP20				
Installation	Cabinet				
Communication	CAN / RS485/WiFi(Optional )				
Working Temperature	0 ~ 55°C				
Storage Temperature	-20 ~ 55°C				
Humidity	≤80%				

# Energy Storage Integrated Cabinet Series



Good Heat  
Dissipation



Highly  
Integrated



Cost  
Effective



Interlligent



- XPH-20kW50kWh
- XPH-30kW60kWh

- IP54 Can be used outdoors
- All new grade A cell LFP battery
- 6000 times circle life
- On grid/Off grid

CE UL FC UN38.3 MSDS

Model	XPH-20kW50kWh	XPH-30kW60kWh
<b>Battery</b>		
Module Energy	10.24kWh	
Module Number	5PCS	6PCS
Rated Energy	51.2kWh	61.4kWh
Standard Voltage	512V	614.4V
Working Voltage Range	432~576V	518.4~691.2V
Humidity	≤80%	
Installation	Cabinet	
Communication	CAN/RS485/WIFI(Optional)	
Product Dimension(Module)	773*560*165mm	
Package Dimension(Module)	900*620*385mm	
Net Weight(Module)	85kg	
<b>PV Input</b>		
Max OCV	1000VDC	
Starting 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
<b>AC Output/Input</b>		
Rated Output/Input Current	30A	45A
Rated Output/Input Voltage	220/380,230/400VAC	
Frequency	50Hz/ 60Hz (Self-adaption)	
Rated Output Power	20000W	30000W
Type	3 Phases	
Max Bypass Overload Current	80A	200A
<b>General Parameters</b>		
Product Dimension of the Cabinet	1170*1031*1636mm	
Package Dimension of the Cabinet	1300*1160*1850mm	
Total Net Weight	805kg	942kg
Ingress Protection	IP54	
Working Temperature	0~55°C	
Storage Temperature	-20~55°C	
Cooling	Air-cooled/Natural	

# Energy Storage Integrated Cabinet Series



Good Heat  
Dissipation



Highly  
Integrated



Cost  
Effective



Interlligent



- XPI-100kW215kWh
- XPI-100kW232kWh

- IP54 Can be used outdoors
- All new grade A cell LFP battery
- 6000 times circle life
- On grid/Off grid
- Real-time remote monitoring
- High class of safety with built-in EMS protection

CE UL FC UN38.3 MSDS RoHS

Model		XPJ-100kW215kWh	XPJ-100kW232kWh
<b>Battery</b>			
Type		768V280Ah	832V280Ah
Rated Energy		215.04kWh	232kWh
Working Voltage Range		672~864V	728V~936V
BMS Communication		Ethernet/RS485/CAN	Ethernet/RS485/CAN
<b>PCS</b>			
AC Side	AC Rated Power	100kW	
	Max Power	100kW	
	Max Current	150A	
	Rated Voltage	380V	
	Rated Frequency	50/60Hz	
DC Side	Max Input Voltage	950V	936V
	Max Current	140A	
	Battery Voltage Range	650~950V	728~936V
<b>MPPT</b>			
Low Voltage Side	Rated Power	100kW	
	Max Current	320A	
	MPPT Voltage Range	200~650V(320~650V Fully loaded)	
High Voltage Side	Rated Power	100kW	
	Rated Current	100A	
	Voltage Range	350 ~ 1000V	
<b>General Parameters</b>			
Product Dimension of the Cabinet		1500*2306*1539mm	1350*2050*1350mm
Ingress Protection		IP54	
Working Temperature		-20 ~ 55°C	
Cooling		Air-cooled	Liquid-cooled
Security Certification		CE/ UN38.3/ RoHS	
Net Weight		3500kg	2500kg