

absen Energy

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Stock code: (300389.SZ)



POWER A GREEN WORLD

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Reliable Home & Business
Energy Storage Solution Provider

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26000m²
Production Area

2.5GWh+
Annual Output

140+
Countries Global Reach

2
R&D Centers

500+
R&D Staff

Powered by
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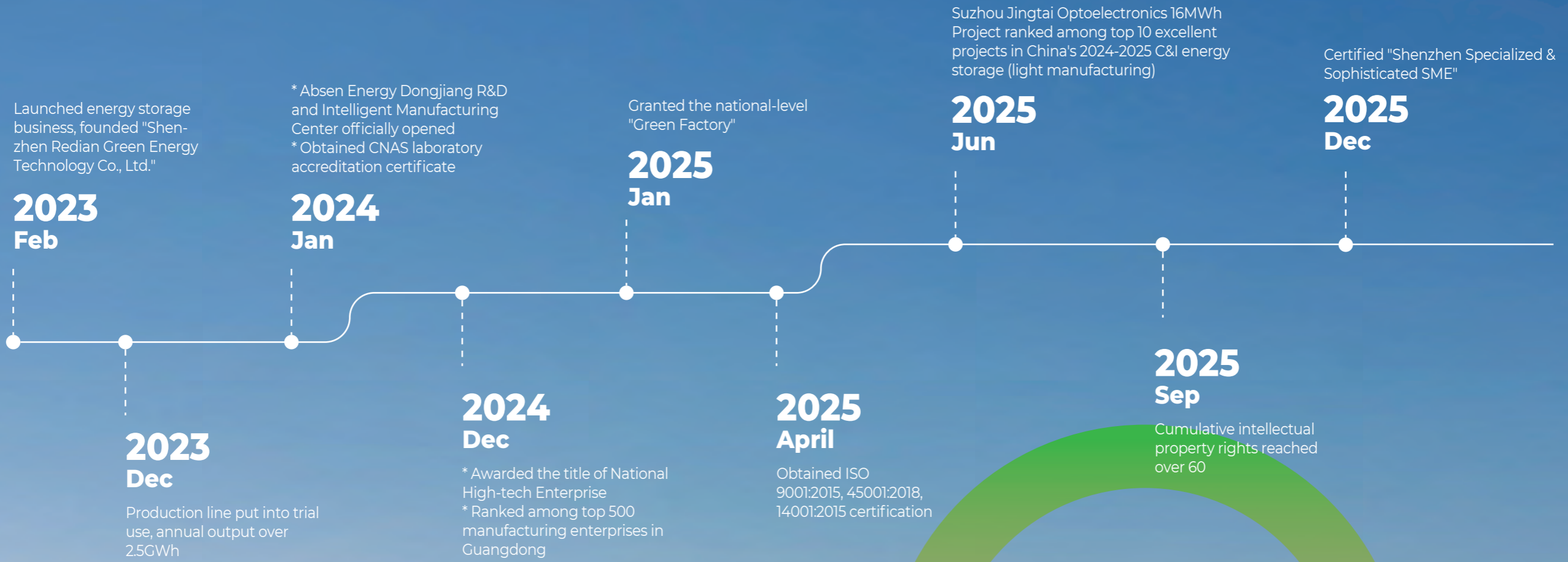
POWER A GREEN WORLD



Absen Energy is a holding subsidiary of Absen (stock code: 300389), a listed company, which is mainly engaged in new energy energy storage business, focusing on the research and development, production and sales of household energy storage and industrial and commercial energy storage products. Absen Energy's business layout is global, and its product sales and service network can cover Asia, Europe, Africa, South America and other regions, and are widely used in dozens of countries and regions. We are committed to providing customers with sustainable green energy storage products and services, so that green energy can benefit every individual, family and organization, and become a reliable home & business energy storage solution provider



COMPANY MILESTONES



HONORARY CERTIFICATES



China's 500 Most Valuable Brands | 2024 China Excellent Management Company

National High-tech Enterprise | Member of CNESA

Member of EESA | 2023 China Energy Storage Industry "Rookie" Award

2023 Energy Storage Industry Innovation Enterprise Award

2023 C&I ESS Benchmark Project Award

2023-2024 C&I ESS Top 10 Excellent Products

2024 "Top 100 New Energy Storage Brands" Award

2024 SNEC Top Ten Highlights "Energy Storage Technology Excellence Award"

2024 Top Ten Residential Energy Storage Brands | 2024 Best New Enterprise Award

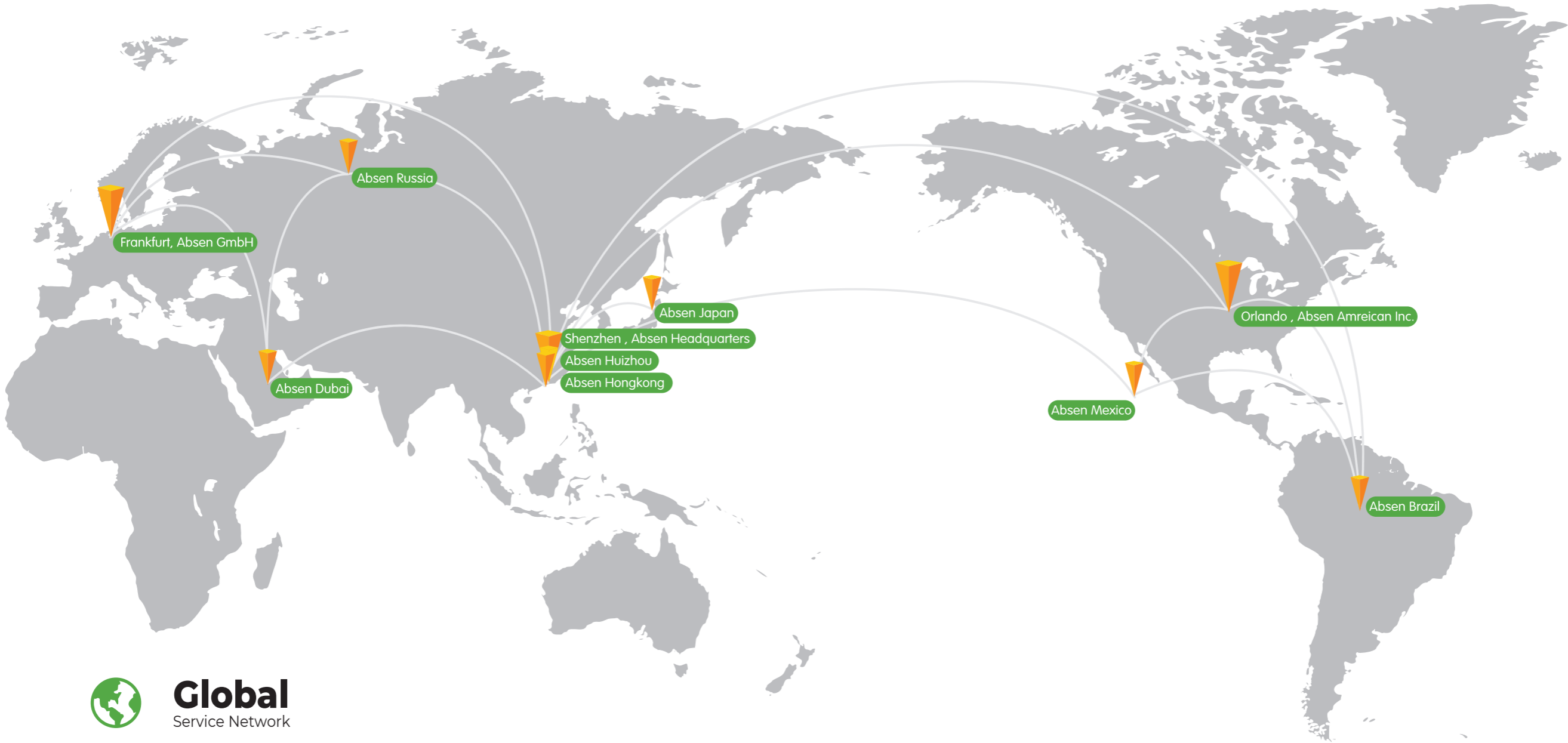
2024 Best User-side Application Scenario Innovation Project Award

Shenzhen Specialized & Sophisticated SME | Shenzhen Innovative Start-up SME



Reliable Home & Business Energy Storage Solution Provider

GLOBAL LAYOUT



Global
Service Network



9
Technical Service Centers



700+
Service Partners



18
Global Branches



30+
Channel Partners



24/7
7X24 Hours
Response Service



4008-036-037
All-Day Service

PLUG AND PLAY

Smart Home Energy Solutions

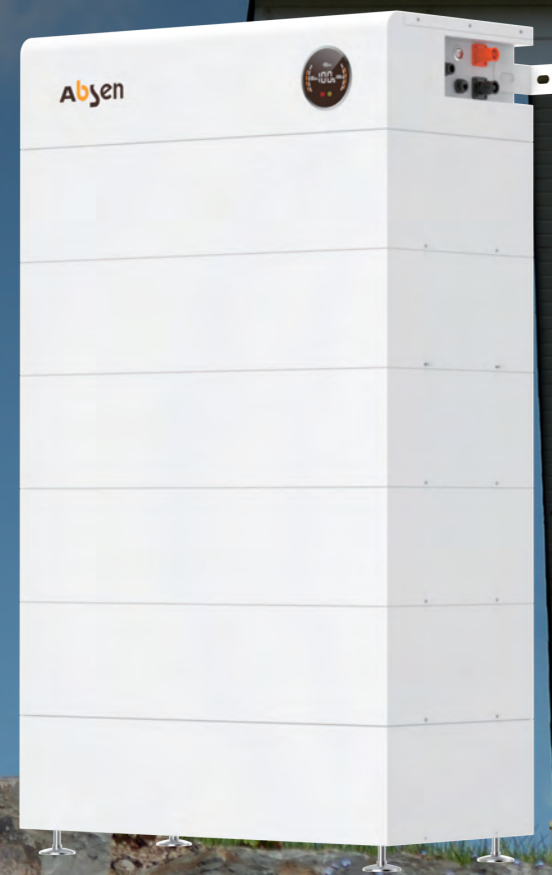
- AI dynamic management, APP remote control of load
- Plug and play, 0 installation cost
- Full scene adaptation, 5kWh~80kWh expansion capacity
- Off-grid switching $\leq 20\text{ms}$, seamless switching



High-Voltage Stackable Residential Battery

Pile HV

- Modular design allows expansion from 2 to 6 modules
- Swift Installation, single 44kg module, no wiring required
- LFP battery cells ensure stable performance and 6000 cycle lifespan
- Optional heater for low-temp use
- Built - in smart BMS, auto address allocation
- WiFi, BT, OTA functions included

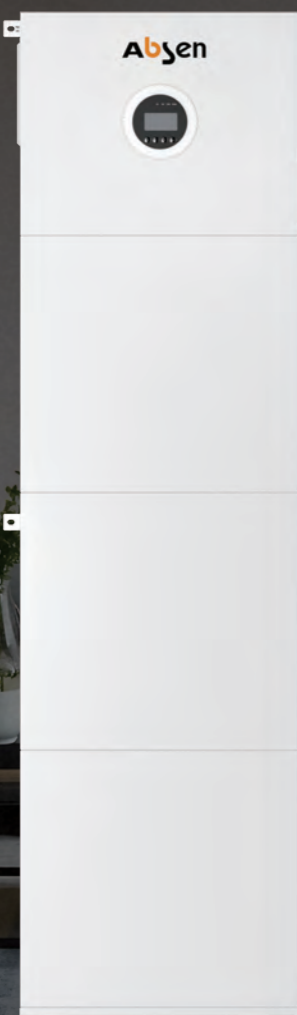


Model	PX-9.84-HPB	PX-14.76-HPB	PX-19.68-HPB	PX-24.60-HPB	PX-29.52-HPB
Battery Type	LFP				
Battery Pack Number	2	3	4	5	6
Nominal Capacity (kWh)	9.84	14.76	19.68	24.6	29.52
Voltage (V)	116~146	174~219	232~292	290~365	348~438
Rated Voltage (V)	128	192	256	320	384
Rated Working Current (A)	40				
Max Charging Current (A)	70				
Max Discharging Current (A)	70				
Certification	IEC62619、EN61000-6-1/3、UN38.3				
General Parameter					
Display	LCD indicator				
Communication	RS485/CAN				
Dimensions (W*D*H)(mm)	573*385*395	573*385*535	573*385*675	573*385*815	573*385*955
Weight (Kg)	98	142	186	230	274
Working Temperature (°C)	Charging: 0~50; Discharging: -20~55				
Operating Humidity (RH)	5%~95%, No condensation				
Altitude (m)	3000				
Cooling Method	Natural Cooling				
IP Rating	IP65				
Installation Method	Stackable floor-standing				
Scalability	2~6				
Battery Pack Parameters					
Model	GM-5.0-HPB				
Battery Pack Specifications (kWh)	4.92				
Life Cycles	6000@90%DOD, 25°C/0.5C				
Dimensions (W*D*H)(mm)	573*385*140				
Weight (kg)	44				

All-in-one Residential Energy Storage System

Pile S 60/51

- Modular structure, expandable up to 3 units, quick installation, compact for space-saving
- Built-in 120A solar charger, 60-500V wide PV input voltage range, slim profile
- Intelligent cell balancing, current-limiting function, multi-protection mechanisms
- WiFi real-time monitoring, smart charging design for extended battery life

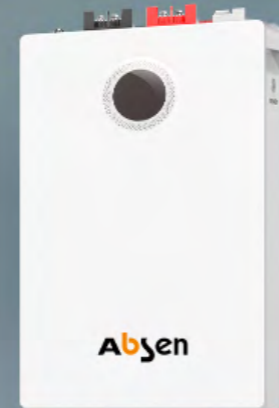


Model	Pile S 60/51		
System Parameter			
Qty. of Battery Modules	1	2	3
Battery Capacity (kWh)	5.12	10.24	15.36
Rated Power (W)	4400	6000	6000
Ingress Protection	IP21		
Operating Temperature (°C)	0-55		
Relative Humidity	20%-95% (Non-condensing)		
Net Weight (kg)	55	97	139
Dimensions (W*D*H)(mm)	500*150*880	500*150*1340	500*150*1800
Max. Operating Altitude (m)	3000 (Derating above 1000)		
Display	LCD		
Communication	RS485/CAN/WIFI		
Inverter Module			
Model	PXS-60/51-LP1		
Rated Battery Voltage (V)	51.2		
Max. PV Input Power (W)	9000		
Max. Open Voltage (VDC)	500		
MPPT Input Voltage Range (VDC)	60-450		
Number of MPPT Trackers	1		
Rated AC Current (A)	26		
Max. PV Input Current (A)	27		
Rated Grid Voltage (VAC)	208/220/230/240; L+N+PE		
Grid Voltage Range (V)	90~280±3 (APP/GEN mode); 170~264±3 (UPS mode)		
Rated AC Power (W)	4400	6000	6000
Peak Output Power (Off-grid)(W)	5000	6000	6000
Switch Time (ms)	10(APP/UPS mode); 20(GEN mode)		
Max. Efficiency (Battery Mode)	94%@48VDC		
Net Weight (kg)	11		
Dimensions (W*D*H)(mm)	500*150*400		
Battery Module			
Model	PXS-60/51-LPB		
Nominal Voltage (V)	51.2		
Voltage Range (V)	43.2-58.4		
Capacity (A)	100	200	300
Nominal Charge/Discharge Current (A)	50/100	100/100	100/100
Max Charge/Discharge Current	100/100	140/140	140/140
Battery Type	LiFePO ₄		
Net Weight (kg)	42	84	126
Dimensions (W*D*H)(mm)	500*150*460	500*150*920	500*150*1380

Residential Battery (LV)

Ebox 5

- Volume Reduced by 40%, up to 16 units can be paralleled. Capacity ranges from 5 to 80kWh
- 100Ah LFP Cells, max charge/discharge current is 100A
- Intelligent cell balancing and current-limiting function; Multiple protections
- Smart screen display; No DIP switch, automatic address allocation; Optional WiFi and BT modules



Model	Ebox5
Nominal Voltage (VDC)	51.2
Operating Voltage (V)	44.8-57.6
Capacity (Ah)	100
Nominal Capacity (kWh)	5.12
Nominal Charge/Discharge Current (A)	50/50
Max Charge/Discharge Current (A)	100/100
Max Discharge Depth (A)	95%
Battery Type	LiFePO ₄
Structure	
Dimensions (W*D*H)(mm)	350x150x565
Weight (kg)	40
IP Rating	IP20
Installation	Wall mounted
Working environment	
Charge Working Temperature (°C)	0~55
Discharge Working Temperature (°C)	-20~55
Altitude (m)	<2500
Humidity (RH)	5-95%
Communication/Warranty	
Communication Port	RS485,CAN
Warranty Period	5 years
Certificates	CB, IEC62619,CE-EMC,EN61000;UKCA;UN38.3;MSDS
Compatible Inverter List	Solis, Deye, Growatt, Victron, Afore, Goodwe, Voltronic, Gospower, Srne, Felicity...

Residential Battery (LV)

Ebox 8

- 16 units parallelable, 8-128kWh capacity
- Max charge/discharge current of 150A
- Built-in WiFi for seamless APP remote intelligent monitoring & real-time management
- Supports APP/OTA remote firmware updates OTA function



Model	Ebox 8
Nominal Voltage (VDC)	25.6
Capacity (Ah)	314
Nominal Capacity (kWh)	8.038
Built-In Fuse (DC V/A)	70/250
Nominal Charge/Discharge Current (A)	150/150
Max Charge/Discharge Current (A)	150/150
Cycle Life	8000 @90%DOD, 25 C/0.5C
Structure	
Dimension(W*D*H)(mm)	380*240*535
Weight (kg)	63.8
IP Rating	IP20
Installation	Wall mounted
Working environment	
Charge Working Temperature (C)	0~55
Discharge Working Temperature (C)	-20~55
Altitude (m)	<2500
Humidity (RH)	5-95%
Communication/Warranty	
Communication Port	RS485, CAN2.0
Warranty Period	5 years
Certificates	UN38.3;MSDS

Residential Battery(LV)

Ebox 16

- 8000 long cycles
- Max 200A charge/discharge current
- Capacity expandable from 16kWh to 256kWh
- Supports RS485/CAN comm interfaces
- Easy to move, suitable for multi-scenario use
- Built-in WiFi, real-time APP monitoring, OTA upgrades



Model	Ebox 16
Nominal Voltage (VDC)	51.2
Capacity (Ah)	314
Nominal Capacity (kWh)	16.076
Built-In Circuit Breaker	125A,2P
Nominal Charge/Discharge Current (A)	157/157
Max Charge/Discharge Current (A)	200/200
Max Discharge Depth (A)	95%
Cycle Life	8000 @90%DOD,25°C,0,5C
Structure	
Dimensions (W*D*H)(mm)	380x239x838
Weight (kg)	116
IP Rating	IP21 (with top cover)
Installation	Floor mounted
Working environment	
Charge Working Temperature (°C)	0~55
Discharge Working Temperature (°C)	-20~55
Altitude (m)	<2500
Humidity (RH)	5-95%
Communication/Warranty	
Communication Port	RS485,CAN
Warranty Period	10 years
Certificates	CB, IEC62619, CE-EMC, EN61000, UKCA, UN38.3, MSDS
Compatible Inverter List	Solis, Deye, Growatt, Victron, Afore, Goodwe, Voltronic, Gospower, Srne, Felicity...

Residential Battery(LV)

Ebox 16 Pro

- 8000 long cycles
- IP65 protection
- Max 200A charge/discharge current
- Capacity expandable from 16kWh to 256kWh
- Supports RS485/CAN comm interfaces
- Easy to move, suitable for multi-scenario use
- Built-in WiFi, real-time APP monitoring, OTA upgrades



Model	Ebox 16 Pro
Nominal Voltage (VDC)	51.2
Capacity (Ah)	314
Nominal Capacity (KWh)	16.076
Built-In Circuit Breaker	125A, 2P
Nominal Charge/Discharge Current (A)	200/200
Max Charge/Discharge Current (A)	200/200
Life Cycles	8000 @90%DOD,25°C/0.5C
Display	LCD indicator
Structure	
Dimension (W*D*H)(mm)	465*240*960
Weight (kg)	120
IP Rating	IP65
Installation	Stacked, Wall-Mounted, Floor-Standing
Battery	
Charge Working Temperature (°C)	0~55(-20~55 with heating function)
Discharge Working Temperature (°C)	-20~55
Altitude (m)	<2500
Humidity (RH)	5-95%
Communication/Warranty	
Communication Port	RS485, CAN
Warranty Period	10 years
Compatible Inverter List	Solis, Deye, Growatt, Victron, Afore, Goodwe, Voltronic, Gospower, Srne, Felicity...
Certificates	CB, IEC62619, CE-EMC, EN61000, UL9540A, UN38.3, MSDS

Residential Off-grid Inverter



Rove 3.6/6.0/12.0KW

- Built-in solar charger
- Wide MPPT range 60-500V
- Complete CE certificate
- Detachable dust cover
- Support lithium/lead-acid battery
- Lithium battery activation
- WiFi monitoring



Model	Rove 3.6KW	Rove 6.0KW	Rove 12.0KW	
AC Input				
Rated Input Voltage (VAC)	208/220/230/240; L+N+PE		220/230/240; L+N+PE	
Voltage Range (VAC)	90~280±3 (APP/GEN mode); 170~264±3 (UPS mode)			
Frequency (Hz)	50/60 (Auto adaptive)			
AC Output				
Rated Power (kW)	PV Inverter Output Battery inverter Output	3.6 3.6	6 6	12 10
Peak Power (kVA)	7.2		12	24
Voltage (VAC)	208/220/230/240±5%		220/230/240±5%	
Power Factor (PF)	1			
Frequency (Hz)	50/60±0.1%			
Switch Time (ms)	10 (APP/UPS mode); 20 (GEN mode)			
Wave Form	Pure sine wave			
Overload Capacity (Battery Mode)	1min@102%-110% load; 10s@110%-200% load;	1min@102%-120% load; 10s@120%-200% load	1min@102%~125% load; 10s@125%~200% load	
Max. Efficiency (Battery Mode)	92.7%@24VDC	94%@48VDC	94%@48VDC	
Charger (PV/AC)				
Solar Charger Type	MPPT			
Max PV Input Current/Input Power	18A/5000W	27A/9000W	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per, MPPT, 15KW/Total	
MPPT Range@Operating Voltage (VDC)	40-450	60-450	60-450	
Max PV Open Circuit Voltage (VDC)	500			
Max. Charge Current (PV/AC)(A)	100	120	160	
Battery				
Rated Voltage (VDC)	24	48	48	
Floating Charge Voltage (VDC)	27	54	54	
Overcharge Protection (VDC)	30.5	61	61	
Battery Type	Lithium or Lead-acid			
Interface				
HMI	LCD			
Interface Module	RS485/RS232/CAN			
Monitoring	WiFi (Optional)			
General Data				
Ingress Protection	IP21			
Operating Temperature (°C)	-10~60			
Relative Humidity	20%~95%(Non-condensing)			
Storage Temperature (°C)	-15~60			
Net Weight (kg)	5.8	7.6	15	
Dimensions (W*D*H)(mm)	284*95*432.5	330*110*402.5	420*120*503.6	
Max Operating Altitude (m)	4000 (Derating above 1000)			

Residential Off-grid Inverter



Rove 6.0/12.0kW (Parallel)

- Can be paralleled
- Built-in solar charger
- Wide MPPT range 60-500V
- Complete CE certificate
- Detachable dust cover
- Support lithium/lead-acid battery
- Lithium battery activation
- WiFi monitoring



Model	Rove 6.0kW	Rove 12kW	
AC Input			
Rated Input Voltage (VAC)	208/220/230/240, L+N+PE	220/230/240, L+N+PE	
Voltage Range (VAC)	90-280±3(APP/GEN mode), 170-264±3(UPS mode)		
Frequency (Hz)	50/60(Auto adaptive)		
AC Output			
Rated Power (kW)	PV Inverter Output Battery inverter Output	6.4 6	12 10
Peak Power (kVA)	12		24
Voltage (VAC)	208/220/230/240 ±5%		220/230/240 ±5%
Power Factor (PF)	1		
Frequency (Hz)	50/60±0.1%		
Switch Time (ms)	10 (APP/UPS mode); 20 (GEN mode)		
Wave Form	Pure sine wave		
Overload Capacity (Battery Mode)	1min@102%~120% load; 10s@120%~200% load	1min@102%~125% load; 10s@125%~200% load	
Max. Efficiency (Battery Mode)	94%@48VDC		
Parallel Quantity	9	6	
Charger (PV/AC)			
Solar Charger Type	MPPT		
Max PV Input Current/Input Power	27A/9000W	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per MPPT, 15KW/Total	
MPPT Range@Operating Voltage (VDC)	60-450	60-450	
Max PV Open Circuit Voltage (VDC)	500		
Max. Charge Current (PV/AC)(A)	120	160	
Battery			
Rated Voltage (VDC)	48		
Floating Charge Voltage (VDC)	54		
Overcharge Protection (VDC)	61		
Battery Type	Lithium or Lead-acid		
Interface			
HMI	LCD		
Interface Module	RS485/RS232/CAN		
Monitoring	WiFi (Optional)		
General Data			
Ingress Protection	IP21		
Operating Temperature (°C)	-10~60		
Relative Humidity	20%~95%(Non-condensing)		
Storage Temperature (°C)	-15~60		
Net Weight (kg)	8.2	15	
Dimensions (W*D*H)(mm)	330*110*402.5	431.7*121.5*503.6	
Max Operating Altitude (m)	4000 (Derating above 1000)		

Unity Series Residential Battery (LV)

Unity LV

- Supports up to 48 units in parallel for capacity expansion, offers multiple installation methods
- Adopts 100Ah LFP cells, with max. 100A charge/discharge current and intelligent cell balancing
- Multiple protections and current-limiting function
Multiple protection
- Automatic address allocation, no DIP switch
- Equips with WiFi/BT module plus OTA function



Model	UX-51-LPB
Nominal Voltage (V)	51.2
Operating Voltage (V)	44.8~57.6
Capacity (Ah)	100
Nominal Capacity (kWh)	5.12
Nominal Charge/Discharge Current (A)	50/50
Max Charge/Discharge Current (A)	100/100
Depth of Discharge	95%
Battery Type	LFP
Fire Protection System	Built-in aerosol fire extinguisher
Certificates	CB, IEC62619, CE-EMC, EN61000, UKCA, UN38.3, MSDS
Structure	
Dimension (W*D*H)(mm)	483*555*130
Weight (Kg)	43
IP Rating	IP20
Installation Method	Wall-mounted, Rack-mounted
Working environment	
Charge Working Temperature (°C)	0~55
Discharge Working Temperature (°C)	-20~55
Altitude (m)	<2500
Humidity (RH)	5~95%
Communication/Warranty	
Communication Port	RS485, CAN
Warranty Period	5 years
Compatible Inverter List	Solis, Deye, Growatt, Victron, Afore, Goodwe, Voltronic, Gospower, Srne, Felicity...

Rack-mounted Residential Battery

Unity HV

- Modular design, expand from 3 to 12 modules, capacity 15kWh-60kWh
- 44kg single module, separable for easy disassembly and installation
- LFP battery cells, stable performance, 6000 - cycle long life
- Automatically manages batteries, protects against over/under-charge&temp
- Adapts to mainstream high-voltage inverters in the market



Model	UX-15.3-HPB	UX-20.4-HPB	UX-25.6-HPB	UX-30.7-HPB	UX-35.8-HPB	UX-40.9-HPB	UX-46-HPB	UX-51.2-HPB	UX-56.3-HPB	UX-61.4-HPB	
Battery Type	LFP										
Battery Pack Number	3	4	5	6	7	8	9	10	11	12	
Nominal Energy (kWh)	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	
Discharge Voltage (V)	129.6 ~172.8	172.8 ~230.4	216 ~288	259.2 ~345.6	302.4 ~403.2	345.6 ~460.8	388.8 ~518.4	432 ~576	475.2 ~633.6	475.2 ~633.6	
Rated Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4	
Rated Working Current (A)	50										
Max Charging Current (A)	100										
Max Discharging Current (A)	100										
Certificates	EMC, IEC 62619, UN38.3										
General Data											
Display	LED										
Communication Interface	RS485/CAN										
Dimensions Interface (W*D*H)(mm)	550*600*1050			550*60*1450				550*600*2050			
Weight (Kg)	165	165	253	297	350	394	438	485	529	573	
Working Temperature Range (C)	Charging: 0~50; Discharging: -20~55										
Operating Humidity Range	5%RH~95%RH, No condensation										
Altitude (m)	3000										
Cooling Method	Natural Cooling										
IP Rating	IP20										
Installation Method	Rack mounted (optional installation rack)										
Scalability	3~12										
Battery Pack											
Model	UX-51-HPB										
Battery Pack Specifications	51.2V/5.12kWh/100Ah										
Life Cycles	6000@90%DOD, 25C/0.5C										
Dimensions (W*D*H)(mm)	483*550*130										
Weight (Kg)	44										

Stacked Residential Battery



Unity HV

- Modular design, expandable from 3 modules to 16, with a capacity range of 15-80kWh
- Using LFP battery cells and has stable performance and a long cycle life, up to 6000 cycles
- Can adapt to mainstream high-voltage inverters in the market
- Automatically manage batteries, balances individual battery cells, and has overcharge, overdischarge, and high/low temperature protection functions



Model	UX-25.6-HPB	UX-56.3-HPB	UX-81.9-HPB
Battery Type	LFP		
Battery Pack Number	5	11	16
Nominal Energy (kWh)	25.6	51.2	81.92
Discharge Voltage (V)	216~288	475.2~633.6	691.2~921.6
Rated Voltage (V)	256	563.2	819.2
Capacity Range (kWh)	15.3~81.92		
Rated Current (A)	50		
Max Charging Current (A)	50		
Max Discharging Current (A)	50		
General Parameter			
Display	LED		
Communication Interface	RS485/CAN		
Dimensions (W*D*H)(mm)	483*550*1120	966*550*1120	1449*550*1120
Weight (Kg)	262	544	781
Working Temperature Range (°C)	Charging: 0~50; Discharging: -20~55		
Operating Humidity Range	5%RH~95%RH, No condensation		
Altitude (m)	3000		
Cooling Method	Natural cooling		
IP Rating	IP20		
Installation Method	Stacked		
Scalability	3~16		
Certificates	UN38.3		
Battery Pack Parameters			
Model	UX-51-HPB		
Specifications	51.2V/5.12kWh/100Ah		
Life Cycles	6000@90%DOD, 25°C/0.5C		
Dimensions (W*D*H)(mm)	483*550*130		
Weight (kg)	44		



FULL-SCENARIO

C&I Energy Storage Solutions

- Modular architecture, high adaptability
- Intelligent design, efficient integrated management
- Intelligent management, remote monitoring
- Integrated design, safe and convenient

Stacked C&I Battery

Unity HV2

- Modular design allows expansion from 4 to 14 modules, covering a capacity range of 72-253kWh
- Employs LFP battery cells, boasting stable performance and a long cycle life of up to 8000 cycles
- Can be adapted to mainstream high-voltage inverters in the market
- Cloud analysis effectively cuts down operation and maintenance costs



Model	UX-72.3- HPB	UX-90.4- HPB	UX-108.5- HPB	UX-126.6- HPB	UX-144.6- HPB	UX-162.7- HPB
Battery Pack Number	4	5	6	7	8	9
System Battery Configuration	1P72S	1P90S	1P108S	1P126S	1P144S	1P162S
Battery Voltage Range(VDC)	201.6~259.2	252~324	302.4~388.8	352.8~453.6	403.2~518.4	453.6~583.2
Battery System (kWh)	72.32	90.4	108.48	126.6	144.6	162.7
Max. Matched Inverter Power (kW)	30	40	50	60	70	80

Model	UX-180.8- HPB	UX-198.9- HPB	UX-217.0- HPB	UX-235.1- HPB	UX-253.2- HPB
Battery Pack Number	10	11	12	13	14
System Battery Configuration	1P180S	1P198S	1P216S	1P234S	1P252S
Battery Voltage Range (VDC)	504~648	554.4~712.8	604.8~777.6	655.2~842.4	705.6~907.2
Battery System (kWh)	180.8	198.9	217	235.1	253.1
Max. Matched Inverter Power (kW)	90	100	110	115	125

System Parameter	
Comm. Method with PCS	CAN2.0
IP Rating	IP20
Cooling Method	Intell. Forced Air Cooling
Working Temperature (C)	-20~55
Humidity (RH)	0-95%
Recommend Depth of Discharge	90%
Noise (dB)	<70
Altitude (m)	APP+Web
Cloud Plat	3~16
Certificates	IEC62619, EN61000, UN38.3
Compatible Inverter List	Solis, Deye, Growatt, Fox, Sinexcel, Afore..

Battery Pack Parameters	
Battery Pack Specifications	57.6V/18.08kWh/314Ah
Life Cycles	8000, 70% SOH (90%DOD, 25°C)
Fire Protection System	Aerosol
Dimensions (W*D*H)(mm)	483*825*235
Weight (kg)	126±3

Outdoor Distributed Energy Storage System (Air-cooling)

Cube 72

- Modular design allows expansion from 4 to 6 modules, offering a capacity range of 72-108kWh, suiting various needs
- Supports 30/40/50kW, catering to small commercial and industrial (C&I) scenarios
- Thermally sensitive wire enables fire extinguishment in extreme conditions, and seamless switching time is $\leq 20\text{ms}$
- Operates with a DC/AC ratio of 1.5 for PV energy, and comes with a 4G/Wifi module for remote access
- Maximizes space utilization by reducing floor space by 55%. Delivered in cabinets, it saves 50% of installation time and cost



Model	Cube 72
System Parameter	
Battery Energy (kWh)	72
Rated Power (kW)	30
AC Output (V)	380/400, 3L+N+PE, 50Hz/60Hz
Off-grid Switching Time (ms)	<10ms
Communication	Wifi/4G/CAN/RS485
Cooling Method	Air cooling
IP Rating	IP54
Working Temperature (°C)	-20~55
Humidity (RH)	0%~95%, No condensation
Altitude (m)	≤ 3000
Dimensions (W*D*H)(mm)	600*1470*1750 (Cabinet)
Fire Protection System	Aerosol
Weight (kg)	750 (Cabinet) + 73 (Inverter)
Certificates	IEC62619, EN61000, UN38.3
Battery Parameter	
Battery Pack	57.6V/18.086kWh/314Ah
Battery System (kWh)	72.32
Battery Voltage Range (VDC)	201.6~259.2
Life Cycles	8000, 70%SOH (90%DOD, 25°C)
PV Parameter	
Max DC Input Power (kW)	60
Max DC Input Voltage (VDC)	1000
Rated Input Voltage (VDC)	600
MPPT Voltage Range (VDC)	150-850
MPPT Number/Strings Number per MPPT Tracker	3/6
AC Side Parameter	
Rated Output Active Power (kW)	30
Max Output Current (A)	45.6/43.3
THDi	<3%
THDv(@linear load)	<2%
PCS Certificates	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 550117 etc.

Outdoor Distributed Energy Storage System (Air-cooling)



Cube 125

- Thermally sensitive wire for fire extinguishment in extreme conditions
- Seamless switching time $\leq 10\text{ms}$
- Reduce on-site installation time and costs by 50%
- Photovoltaic energy at a DC/AC ratio of 1.9
- 2.5-hour energy storage/5-hour energy storage



Model	Cube 125
System	
Battery Energy (kWh)	128
Rated Power (kW)	50
AC Output (V)	230/400, 3L+N+PE, 50Hz/60Hz
Off-grid Switching Time (ms)	<10
Communication	Wifi/4G/CAN/RS485
Cooling Method	Air cooling
IP Rating	IP54
Working Temperature (°C)	-20~55
Humidity	0%RH~95%RH, no condensation
Altitude (m)	≤ 3000
Dimensions (W*D*H)(mm)	1000*1295*1788 (Cabinet)
Fire Protection System	Aerosol
Weight (kg)	1330 (Cabinet) + 73 (Inverter)
Certificates	IEC62619, EN61000, UN38.3
Battery	
Battery Pack	102.4V/32.15kWh/314Ah
Battery System	128.6
Battery Voltage Range (VDC)	358.4~460.8
Life Cycles	8000, 70% SOH (90%DOD, 25°C)
Certificates	IEC62619, UL1642, UN38.3, GB36276-2018, RoHS
PV	
Max DC Input Power (kW)	100
Max DC Input Voltage (VDC)	1000
Rated Input Voltage (VDC)	600
MPPT Voltage Range (VDC)	150~850
MPPT Number/Strings Number per MPPT Tracker	4*8
AC Side	
Rated Output Active Power (kW)	50
Max Output Current (A)	72.2
THDi	<3%
THDv (@linear load)	<2%
PCS Certificates	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 550117 etc.

Outdoor Distributed Energy Storage System

Cube 225-Y

- Unlimited grid-connected expansion, support seamless switching within <10ms
- Battery management system and comprehensive thermal management
- Fault classification protection mechanism
- Charge and discharge cycles ≥7000 times



Model	Cube 225-Y
PV (DC)	
Max PV Input Power (kW)	220
PV Input Voltage Rate (V)	250~607
MPPT	4
Battery (DC)	
Rated Battery Energy (kWh)	225
Rated System Voltage (V)	716.8
Battery Type	LFP
Battery Capacity (Ah)	314
Series of Battery	1P*32S*7S
AC Output	
Rated AC Power (kW)	100
Rated AC Current (A)	144
Rated AC Voltage	400V, 3P+N+PE, 50/ 60Hz
THDi	<3% (rated power)
PF	-1 leading to+1 lagging
General Data	
Protection Level	IP55
Operating Temperature (°C)	-25~60(Derating above 45)
Altitude (m)	3000 (>3000 derating)
Dimensions (W*D*H)(mm)	RS485/ CAN 2.0/ Ethernet/ dry contact
Dimension (W*D*H)mm	1700*1200*2300
Fire Protection System	Aerosol
Cooling Method	Air conditioning cooling
Weight (approx.)(kg)	3300
Certificates	UN38.3, IEC62619, IEC/EN62477, EN61000, CEI016, IEC62116/ IEC61727, G99, EN50549, VDE4110, NRS 097 etc.

Outdoor Distributed Energy Storage System

Cube 261-S

- Safety by Design, built-in thermal sensing cable
- True Seamless Power Backup, ≤ 10 ms switching
- Three-in-one interface for PV, wind power, diesel generators
- 50% faster and lower-cost installation
- Maximized solar harvest, up to 2x PV over-sizing
- Two independent battery ports, optimized 0.25C/0.5C charge - discharge
- 160% overload for 200ms off-grid, stable heavy-load startup
- Multi-unit parallel, up to 1.25MW (STS cabinet needed for ≥ 6 units)



Model	Cube 261-S
System	
Maximum System Efficiency	$\geq 90\%$
Charge - Discharge Rate	$\leq 0.5P$
Off-grid Switching Time (ms)	< 10
Depth of Discharge	90%
Noise (rated operating condition)(dB)	70@1m
Cooling Method	Liquid cooling
IP Rating	IP55 (battery) + IP66 (inverter)
Working Temperature (°C)	-20~55
Humidity	0%RH~95%RH
Altitude (m)	≤ 3000
System Dimensions (W*D*H)(mm)	1000*1300*2350
Fire Protection System	Pack-level + cluster-level aerosols
Communication	CAN / RS485/ Ethernet / Wi-Fi (optional)
Weight (kg)	2700
Mounting Mode	Floor-mounted Installation
Battery	
Battery Type	LFP3.2V/314Ah
System Battery Configuration	1P260S
Battery System (kWh)	261
Battery Voltage Range (VDC)	728~936
Life Cycles	8000, 70% SOH (90%DOD, 25°C)
Certificates	IEC62619、UL1642、UN38.3、GB36276-2018、RoHS
PV	
Max DC Input Power (kW)	250
Max DC Input Voltage (VDC)	1000
Rated Input Voltage (VDC)	600
MPPT Voltage Range (VDC)	150~850
MPPT Number/Strings Number per MPPT Tracker	10*20
AC Side	
Rated Output Active Power (kW)	125
Rated Output Current (A)	189.9/180.4
Rated Grid Voltage (V)	380/400, 3L+N+PE, 50Hz/60Hz
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi/THDv	$< 3\%$ / $< 2\%$

Outdoor Distributed Energy Storage System

Cube 261-Plus

- All-in-one modular. On-demand capacity expansion. Pre-commissioned AC & DC system delivery
- Flexible DC-side expansion, fits 2-8h scenarios
- PV AC coupling with AI. Precise charge/discharge by price for max revenue
- Intelligent liquid cooling. $\leq 2.5^{\circ}\text{C}$ cell temp diff, +30% lifespan, -20% energy use
- Modular for easy operation, install & maintenance



Model	Cube 261-Plus
System Parameter	
Maximum System Efficiency	$\geq 90\%$
Charge - Discharge Rate	$\leq 0.5\text{P}$
Working Temperature (°C)	-20~55
Humidity (RH)	0%-95%
Cooling Method	Liquid cooling
IP Rating	IP54
Corrosion Protection Grade	C4
Noise (Rated Operating Condition)	$\leq 75\text{dB}@1\text{m}$
Altitude (m)	≤ 3000 (>2000 derating)
Fire Protection System	PACK-level + Cluster-level aerosols
Communication	4G
System Dimensions (W*D*H)(mm)	1000*1300*2388
Weight (kg)	2450
Certification	IEC61000, IEC62619, UN38.3
Battery Parameter	
Battery Type	LFP3.2V/314Ah
System Battery Configuration	1P260S
Battery System (kWh)	261.2
Battery Voltage Range(VDC)	676~949
Endurance Cycle	8000, 70% SOH(90%DOD,25°C)
AC Side Parameters	
Rated Output Power (kW)	125
Grid Voltage Range	300~460
Wiring Mode	3W+N+PE
Frequency (Hz)	50/60
Rated Charge/Discharge Current (A)	182
Power Factor	>0.99(-1 leading -1 lagging)
THDi	<3%

Outdoor Distributed Energy Storage System

Cube 1000

- Supports parallel operation of 4 cabinets and off-grid switching without communication
- Pre - installed in the factory for easy on-site installation
- Effortless operation and cloud monitoring
- The cell temperature difference < 5°C



Model	Cube 1000
PCS Cabinet	Monet-500TS
Rated AC Power (kW)	500 (125*4)
Rated AC Current (A)	200*4
Rated AC Voltage	400V, 3W+N+PE
DC Voltage Range (V)	580~950
Isolation Transformer (optional)(kVA)	250/500
STS (optional)(kW)	150/300/600
Protection Level	IP54
Cooling Method	Intelligent air cooling
Altitude (m)	3000 (over 2000 derating)
Dimensions (W*D*H)(mm)	1350*1000*2300
Weight (approx.)(kg)	2240
Certificates	EN50549-1, EN 62477-1, VDE V0126-1-1, NRS 097-2-1, EN 50549-1/-2 NL, IEC61000-6-2/-4
PV Cabinet	Monet-(DC500)
Rated Power (kW)	500 (50*10)
PV Open-circuit Voltage (V)	250-607
Max PV Input Current (A)	10*160
MPPT Quantity	10
Power Factor	-1 leading to +1 lagging
THDU	<3% (Rated power)
Protection Level	IP54
Cooling Method	Intelligent air cooling
Dimensions (W*D*H)(mm)	1350*1000*2300
Weight (approx.)(kg)	900
Certificates	EN/IEC62109-11-2, EN/IEC 61000-6-21-4
Battery Cabinet	CM-225.0-HPB
Rated Battery Energy (kWh)	2.25
System Rated Voltage (V)	716.8
System Voltage Range (V)	580~817.6
Series of Battery	1P*32S*7S
Cooling Method	Air conditioning cooling
Protection Level	IP54
Dimensions (W*D*H)(mm)	1000*1100*2300
Weight (approx.)(kg)	2180
Certificates	UN38.3, IEC62619, IEC61000-6-21-4

ABSEN ENERGY Cloud Management Platform



Reliable Home & Business Energy Storage Solution Provider

Efficient Management

- Multi-role perspective management billboard
- Power station self-identification and self-organization network access
- Remote batch settings make upgrades easier

Intelligent Operation and Maintenance

- Online instant consultation and service
- Intelligent analysis of power station revenue and operation trends
- Automatic inspection and report generation

Peace of Mind

- Cloud security guard provides early warning of potential risks
- Promptly notify terminal and accurately locate the fault location
- Provides cell-level multi-dimensional real-time information

Innovation Architecture

- Integrate AI large models and customize exclusive services
- Cloud service architecture supports unlimited device access
- Quick system function selection and upgrade





8.18MW/16.37MWh
Suzhou, China

Cube 372
Energy Storage System

HV10-2000
Transformer



1.84MW/3.68MWh
Sichuan, China

Cube 230
All-in-One
Energy Storage Cabinet



2.3MW/4.6MWh
Huizhou, Guangdong

AX 3400, Cube 230,
Cube 232, Cube 215
Energy Storage Systems



1.1MW/2.2MWh
Dongguan, Guangdong

Cube 200
All-in-One
Energy Storage Cabinet



1.86MW/3.72MWh
Zhongshan, Guangdong

Cube 200, Cube 230
Energy Storage System



1MW/2MWh
Huizhou, Guangdong

Cube 200
All-in-One
Energy Storage Cabinet



0.92MW/1.92MWh
Guangdong, China

Cube 230
Outdoor Distributed
Energy Storage System



400kW/1024kWh
Middel East

Cube 128
Outdoor Distributed
Energy Storage System



500kW/900kWh
Arequipa, Peru

Cube 1000
Outdoor Distributed
Energy Storage System



125kW/261kWh
Myanmar

Cube 261-Y
Outdoor Distributed
Energy Storage System



500kW/900kWh
Yangon, Myanmar

Cube 1000
Outdoor Distributed
Energy Storage System



100kW/120kWh
Yangon, Myanmar

Cube 60
Outdoor Distributed
Energy Storage System



100kW/215kWh
Middel East

Cube 215
All-in-One Energy Storage Cabinet



50kW/125kWh
Middel East

Cube 125
All-in-One Energy Storage Cabinet



100kW/215kWh
Myanmar, Mawlamyine

Cube 215
Outdoor Distributed, Energy Storage System



100kW/120kWh
Myanmar, Meiktila

Cube 60-S
Outdoor Distributed, Energy Storage System



50kW/60kWh
Middel East

Cube 125
All-in-One Energy Storage Cabinet



50kW/125kWh
Middel East

Cube 125
All-in-One Energy Storage Cabinet

Residential ESS Cases



15kW/30kWh
Middle East

Unity HV
Rack Type Residential Battery



20kW/40kWh
Bohol Island, Philippines

Pile Series
Low-Voltage Stackable Residential Battery