



Battery Solution

We empower a smart lifestyle for everyone.

BCPG and SVOLT forge ahead to create new sustainable energy experience with comprehensive “**Energy Storage solutions**” to support more effective renewable energy use.



Innovative Products

SVOLT adheres to the fine management and forward-looking 3S energy storage system integration technology and product concept (SAFE, STRONG, SMART), and has developed three series of energy storage products. With a commitment to providing one-stop energy solutions for domestic and foreign customers according to different market demands.



Medium and Large Energy Storage

[Utility, C&I]



Small Energy Storage

[Residential, Portable]



Cell



Intelligent Application



• Outdoor Cabinet

318kWh Outdoor Cabinet



639kWh Outdoor Cabinet



• Residential ESS (Wall mounted)

Residential storage battery systems



Residential storage inverters



• Blade Cells for Utility Application

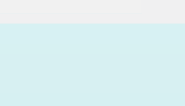
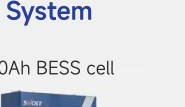
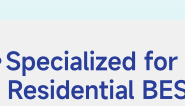
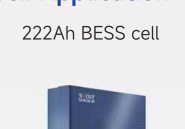
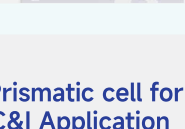
325Ah ES cell



730Ah BESS cell (2024 New Products)



350Ah BESS cell (2024 New Products)



• Energy Management System



• C&I All-in-one Cabinet

200kWh C&I All-in-one Cabinet



• Residential ESS (All-in-one)

Residential ESS (All-in-one)



• Prismatic cell for C&I Application

222Ah BESS cell



• Early Warning device (All-in-one)



• Container solutions

3.34/3.46/6.9MWh



• Portable energy storage

Portable ES (customized)



• Specialized for Residential BESS System

100Ah BESS cell



4.2Ah BESS cell



50Ah BESS cell

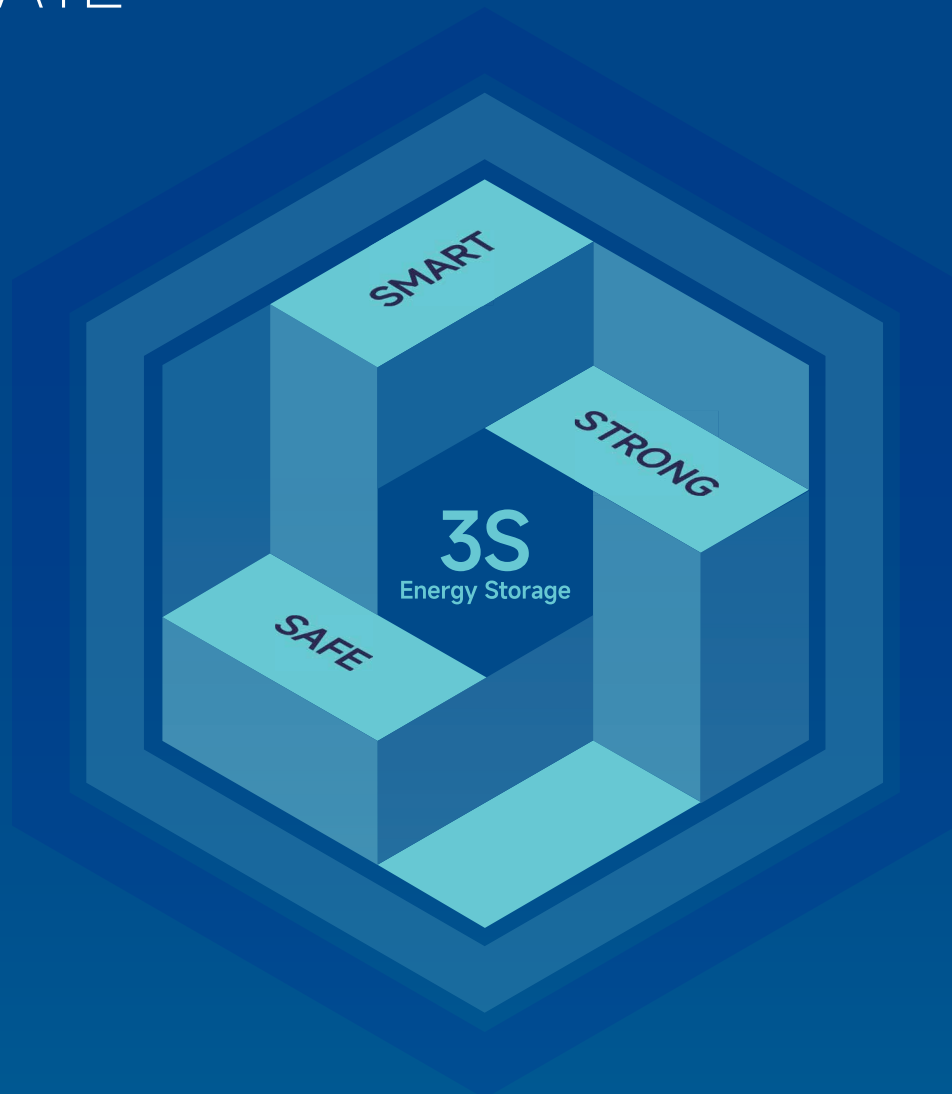


• SVOLT Cloud Based service platform



3S ENERGY STORAGE

ADVOCATE



In the context of carbon peaking and carbon neutrality, SVOLT conducts a comprehensive analysis of the development of energy storage formats. Energy storage should be fundamentally safe and durable, with a focus on smart development. With ingenuity and continuous cultivation, SVOLT will continue to move forward.

SAFE



Full-cell safety, comprehensive safety, and lifelong safety to achieve worry-free production, delivery, and operation throughout the process.

STRONG



Built on high-quality R&D and manufacturing genes that comply with automotive standards, our solutions integrate efficient operation and maintenance technologies throughout the entire lifecycle, ensuring stable and reliable system operation.

SMART



Supported by AI and big data technologies, we achieve intelligent monitoring, early warning, control, and strategy optimization, providing a comprehensive smart experience of intelligent power consumption and flexible energy utilization.

Utilities

Energy Storage



3.34MWh Liquid cooling Container-1P



	Type	Parameters
Cell Parameters	Cell Type	Lithium Iron Phosphate (LFP)
	Cell Capacity	222Ah
	Cycle Life	≥8000cls@70%SOH
System Parameters	Series-parallel configuration	1P392S*12
	Capacity	3.34MWh
	Output Voltage	1254.4V DC
	Charge and Discharge Rate	≤1P
	IP	IP55
	Cooling Method	Liquid Cooling
	Dimensions	7000*2896*2438mm
	Weight	≈35 t
	Corrosion and Contamination Resistance	C3, Level II
	Altitude	≤3000m (no derating)
	System Noise	≤75dB@1m
	Operating Environment	Temperature Range: -30°C to 45°C; Humidity Range: 5% to 95%, No Condensation
Standards	Certification	GB/T36276、IEC62619、UN38.3、UL9540*、UL1973*

* denotes: certification forthcoming

3.46/3.3MWh Liquid cooling Container-0.5P



	Type	Parameters
Cell Parameters	Cell Type	Lithium Iron Phosphate (LFP)
	Cell Capacity	325Ah/310Ah
	Cycle Life	≥9000/12000cls@70%SOH
System Parameters	Series-parallel configuration	1P416S*8
	Capacity	3461/3300 kWh
	Output Voltage	1331.2V DC
	Charge and Discharge Rate	≤0.5P
	IP	IP55
	Cooling Method	Liquid Cooling
	Dimensions	6058*2896*2438mm
	Weight	≈35t
	Corrosion and Contamination Resistance	C4, Level II
	Altitude	≤3000m (no derating)
	System Noise	≤75dB@1m
	Operating Environment	Temperature Range: -30°C to 45°C; Humidity Range: 5% to 95%, No Condensation
Standards	Certification	GB/T36276、IEC62619、UN38.3、UL9540、UL1973

* denotes: certification forthcoming

6.9MWh Liquid cooling Container-0.5P
(2024 New Product)



	Type	Parameters
Cell Parameters	Cell Type	Lithium Iron Phosphate (LFP)
	Cell Capacity	350Ah
	Cycle Life	≥9000cls@70%SOH
System Parameters	Series-parallel configuration	1P410S*14
	Capacity	6.9MWh
	Output Voltage	1312V DC
	Charge and Discharge Rate	≤0.5P
	IP	IP55
	Cooling Method	Liquid Cooling
	Dimensions	6058*3100*2638mm
	Weight	≈50 t
	Corrosion and Contamination Resistance	C4/C5, Level II
	Altitude	≤4000m
Standards	System Noise	≤75dB@1m
	Operating Environment	Temperature Range: -30°C to 55°C; Humidity Range: 0% to 100%, No Condensation
	Certification	GB/T36276、IEC62619*、UN38.3*、UL9540*、UL1973*

"*" denotes: certification forthcoming

318kwh liquid cooling cabinet-0.5P



	Type	Parameters
Cell Parameters	Cell Type	Lithium Iron Phosphate (LFP)
	Cell Capacity	222Ah
	Cycle Life	≥8000
System Parameters	Series-parallel configuration	2P224S
	Capacity	318 kWh
	Output Voltage	716.8V DC
	Maximum System Efficiency	≥94% (including auxiliary power)
	Charge and Discharge Rate	≤0.5P
	IP	IP55
	Cooling Method	Liquid Cooling
	Dimensions	≤1500*1300*2300mm
	Weight	≤3.4t
	Corrosion and Contamination Resistance	C3 (C4, C5 optional)
	Altitude	≤3000m
	System Noise	≤75dB@1m
	Fire fighting system	Aerosol+pack level+active warning
Standards	Operating Environment	Temperature Range: -30°C to 55°C; Humidity Range: 0% to 95%, No Condensation
	Certification	GB/T36276、IEC62619*、UN38.3*、UL9540*、UL1973*

"*" denotes: certification forthcoming

Commercial & Industrial Energy Storage





200kWh C&I All-in-One Cabinet

The product integrates battery, BMS, PCS, EMS, air conditioning, and fire protection systems. It can be widely used in transformer substations, small commercial and industrial buildings, hospitals, charging stations, households, and other scenarios. It has functions such as peak shaving, load shifting, joint new energy generation, dynamic capacity expansion, demand response, power quality management, and emergency backup power.

High Integration	Modular design Small floor area	Fixed by anchor bolts Simple and convenient installation
Flexible Capacity Expansion	Building block type expansion, simplified parallel connection supporting up to 20 sets of equipment parallel connection, meeting the application requirements of 2-6 hours .	
Multiple Functions	Supports peak shaving and valley filling, dynamic capacity expansion, reactive power compensation, reverse power control, AGC response, and other functions	
Smarter	"Cloud, edge, and terminal" integrated control strategy Online optimization	

CE-M-100/200	Type	Parameters
Cell Parameters	Cell Type	LFP
	Cell capacity	280Ah
	Cycle life	≥6000@70%SOH
	Rated power	100 kW
	Output voltage	400V AC
	Output frequency	50/60 Hz
AC side Parameter	Cooling mode	Air cooling
	Series-parallel configuration	1P210S/224S
	Nominal capacity	188.2 kWh/200.7 kWh
System Parameter	Cooling mode	Forced air cooling
	Maximum efficiency of system	≥86.5% (Auxiliary power)
	Rated charge and discharge ratio	≤0.5 P
	IP	IP55
	Cooling mode	Air cooling
	Dimensions (L * W * H)	≤1000*1920*2450mm
	Weight	2.9 t
	Corrosion protection, pollution grade	C3
	Maximum permissible altitude	≤2000 m
	System noise	≤75dB@1m
	Environment	Temperature range: -30°C~55°C; Humidity range: 5% to 95%, without condensation



639kWh DC Block Cabinet

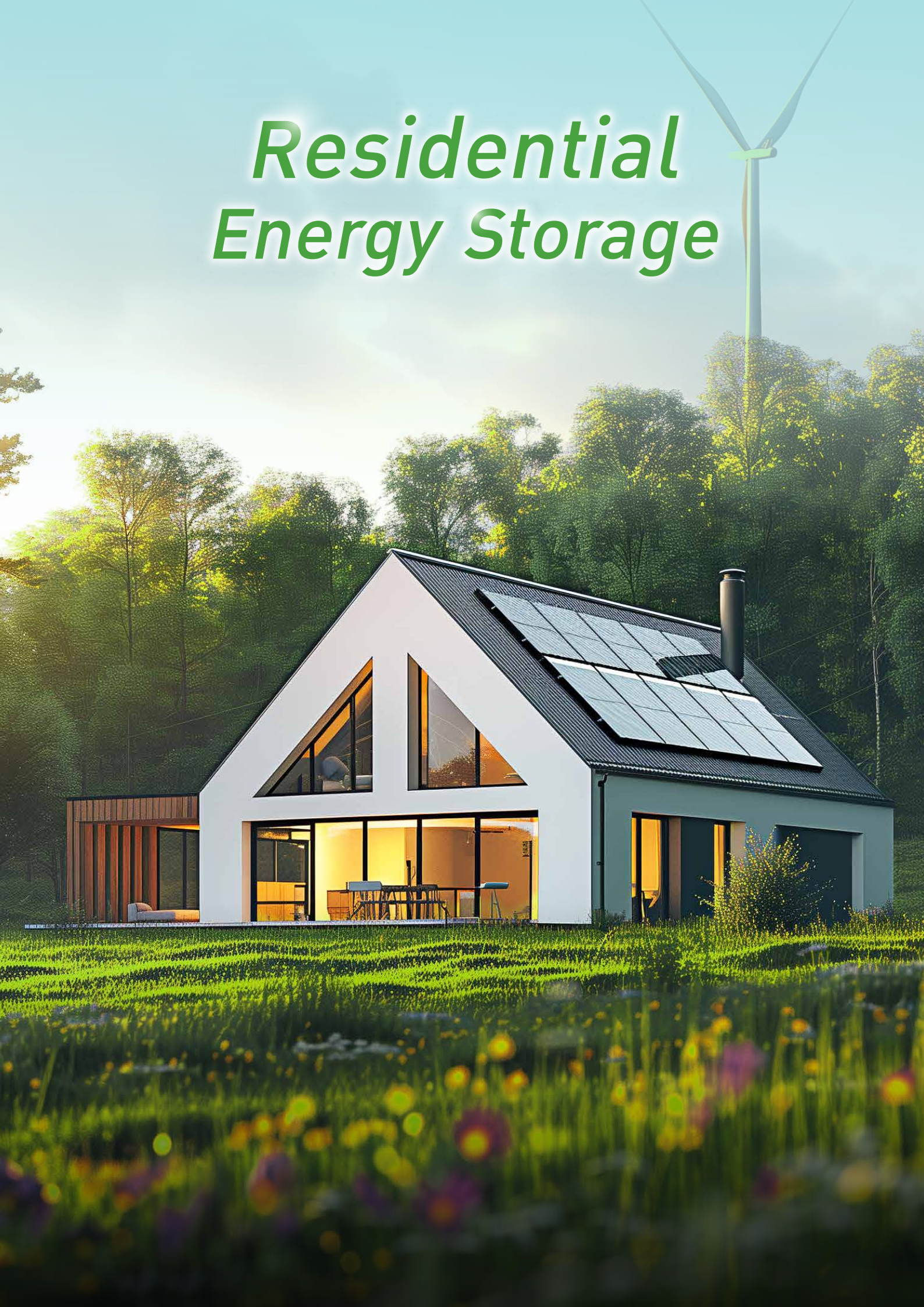
The representative product of SVOLT is modular and standardized energy storage system, designed with the 3S energy storage concept and manufactured to the automotive-grade quality. It features peak shaving and valley filling, joint renewable energy generation, dynamic capacity expansion, demand response management, power quality control, emergency backup power, and support for fast charging of electric vehicles. It can be applied to large industrial and commercial parks, large-scale storage and charging stations, and other scenarios.

High Safety	100% Real-time monitoring of cell	Isolated compartments for batteries with 2-hour fire prevention and insulation.	1230 gas fire suppression and cooling with quick connection to water-based firefighting.	Big data analysis enables proactive fault detection and isolation at both cluster and unit levels	
Fine Management	One-to-one Refined temperature control, with energy efficiency improved by 1.5%	≤35°C cell temperature ≤5°C cell temperature difference	Branch-based charge & discharge and distributed module unit management		
High Reliability	- 40-50 °C Wide temperature adaptability	Level 15 hurricane resistance rating.	UBC zone4 Seismic grade	IP55 High protection level	C4 High anticorrosive grade
Flexibility	Small-volume unit design High site utilization rate	AC, DC parallel coupling supports the mixing of old and new batteries		Building block type combination, supporting 500KWh-10MWh multi-scenario application	

	Type	Parameters
Cluster	PACK	15-17
	Configuration	1P210S/1P224S/1P238S
	Nominal voltage	672/716.8/761.6 V
	Battery cluster nominal energy	188.2-213.2 kWh
System	Number of cell clusters	3
	Capacity	564.5-639.6 kWh
	Dimensions (L * W * H)	4640*1200*2896 mm

Power/kw	Nominal Capacity/kWh	Duration/h	Number of Energy Storage Units	Remarks
250	564	2	1	0.5P
250	1128	4	2	0.25P
500	1128	2	2	0.5P
500	1692	3	3	0.3P
500	2256	4	4	0.25P
630	1279	2	2	0.5P
630	2822.5	4	4	0.5P

Residential Energy Storage



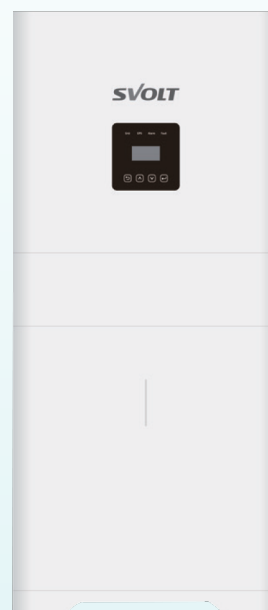


Residential Energy Storage Product

Type	25.6V 106Ah	48V 106Ah	48V 106Ah	51.2V 280Ah
Cell Model	LFP-106Ah	LFP-106Ah	LFP-106Ah	LFP-106Ah
Rated capacity (kWh)	2.71kWh	5.09kWh	9.6kWh	14.34kWh
Maximum continuous charging and discharging current (A)	100A	100A	100A	100A
Cycle life	> 4000 cycles (0.2C, 25°C@90%DOD)			
Energy efficiency	98%	98%	98%	98%
Protection Grade	IP20	IP20	IP20	IP20
Dimension (W*D*H, mm)	448*350*154	598*360*155	650*550*150	750*500*200
Weight	25.4	44.6	80	110
Working Temperature	Discharge temperature: -20°C~45°C Charging temperature: 0°C~45°C			
Certification	UN38.3、IEC62619			

5kWh All-in-One Stackable Modular BESS system

Type	Parameters
Cell	LFP-104Ah
Rated energy (kWh)	5.3kWh/10.6kWh
Maximum continuous charging and discharging current (A)	100Ah
Cycle life@80%DOD	> 4000 cycles
Energy Efficiency	98%
Protection Grade	IP65
Dimension (W*D*H, mm)	Battery: 550*550*195
(Battery + Inverter)	Inverter: 650*550*200
Cooling Method	Natural Cooling
Communication mode	CAN/RS485/WIFI/LAN/DAM
Certification	UN38.3, IEC62619



5kW Inverter

Type	AE3K-L-S	AE3K-L-S	AE3K-L-S	AE3K-L-S	AE3K-L-S	AE3K-L-S
MPPT Voltage Range (V)	125-500	125-500	125-500	125-500	125-500	125-500
Single MPPT Maximum Output Current (A)	14/14	14/14	14/ 14	14/14	14/14	14/14
Rated output power (kW)	3	3.68	4	4.6	5	6
Maximum Output Power (A)	3	3.68	4	4.6	5	6
Rated output voltage (V)	230(176 to 270)					
Grid-connected frequency (Hz)	50/60					
Rated power (kVA)	3	3.68	4	4.6	5	6
Rated output voltage (VAC)	230VAC					
Rated output current (A)	13	16	17.4	20	21.7	26
Rated output frequency (Hz)	50/60Hz					
Automatic switching time (ms)	< 20ms					

Three-Phase High Voltage ESS

IP rating	IP65			
Cooling	Natural cooling			
HYBRID INVERTER	AE6K-H-T	AE8K-H-T	AE10K-H-T	AE12K-H-T
Coupling	Hybrid			
Max. PV Input Power (kW)	15			
Max. DC Voltage (V)	1000			
MPPT Voltage Range (V)	180~950			
Max. DC Current (A)	15+15			
Max. Charge/Discharge Power (kW)	6/6	8/8	10/10	12/12
Rated Battery Voltage (V)	200	266	333	400
Battery Voltage Range (V)	120~875			
Max. Battery Charge/Discharge Current (A)	30/30			
Rated Grid Voltage (V)	3L/ N/ PE, 220/ 380, 230/ 400			
Rated Current (A)	9.2/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Rated Grid Frequency (Hz)	50/60			
Rated Grid Input Active Power (kW)	9	12	15	18
Max. Grid Input Current (A)	13.6	18.2	22.7	27.2
Rated Grid Output Active Power (kW)	6	8	10	12
Rated EPS Output Apparent Power (kVA)	6	8	10	12
Max. EPS Output Current (A)	10.1	13.5	16.8	20.1
Max. Efficiency	97.6%			
Power Factor Range	0.8ind-0.8cap			
THD	<3%			
Operating Temperature Range	-25~60°C (>45°C Derating)			
Communication Interface	WIFI/RS485			
Product Dimension (W × H × D) / Weight	550×575×240 mm / 29 kg			
Certification Standards	Safety: IEC62109-1, IEC62109-2, EMC: IEC61000-6-1, IEC61000-6-3			
Certificate	TUV CE			
Grid-Connection Standards	Germany: VDE-AR-N 4105/11.18, Europe: EN 50549-1:2019, EN 50549-10:2022 South Africa: NRS 097-2-1:2017 Ed.2.1, Sweden: EIFS 2018:2			



BESS	AESCB10	AESCB15	AESCB20	AESCB25	AESCB30
BCU Dimension (WxHxD)/Weight	550x200x252 mm/9.5 kg				
Number of batteries	2	3	4	5	6
Nominal capacity(kWh)	10.2	15.3	20.4	25.5	30.6
Nominal Voltage(V)	204.8	307.2	409.6	512	614.4
Standard Charge Voltage(V)	227.2	340.8	358.4	568	681.6
Discharge Cut-off Voltage(V)	179.2	268.8	454.4	448	537.6
Dimension(mm)	550x252x960	550x252x1300	550x252x1640	550x252x960 550x252x1100	550x252x1300 550x252x1100
Weight(kg)	116.5	168.5	220.5	116.5 / 159	168.5 / 159
BATTERY PACK	AES5.1-M				
Rated Voltage (V)	102.4				
Operating Voltage Range (V)	89.6~113.6				
Rated Capacity (Ah)	50				
Energy Capacity (kWh)	5.12				
Battery Material	LFP				
Recommmed Charge/Discharge Current	25A/25A (25°C)				
Max. Charge/Discharge Current	32A/32A (25°C)				
Charge/Discharge Efficiency	>95%				
Cycle Life	>6000* Cycles				
Ambient Temperature	-20°C~53°C				
Charging/Discharging Temperature	0°C~53°C/-18°C~53°C				
Communication	CAN, RS485				
P rating	IP65				
Scalability	Up to 6 modules				
Battery Dimension (WxHxD)/Weight	550x340x252 mm/52 kg				
Certificate	TUV, CE				
EMC Certification Standards	IEC 61000-6-1, IEC 61000-6-3				
Safety Certification Standards	IEC/EN62477-1, IEC 62619, IEC 60730 Annex H, IEC 63056				
Transportation	UN38.3				
Cooling	Natural cooling				

* At 25°C, under specific test conditions.



Contact us:

Komson Kwanthong

BCPG Energy Innovation

Email: komson@bcpggroup.com



BCPG Public Company Limited

2098 M tower Building, Sukhumvit Road

Phra Khanong Tai, Phra Khanong, Bangkok 10260 Thailand

www.bcpvggroup.com