



VOLT X ENERGY HOME BATTERY SYSTEM

50 kWh Battery & Single-Phase 5 kW Inverter



10-Year Product & Performance Warranty

Every VoltX Energy Home Battery System comes backed by a comprehensive warranty for your peace of mind.



High-Capacity LiFePO4 Storage

Stackable energy storage modules to meet your household's energy demand, all backed by advanced lithium iron phosphate technology.



Flexible Installation Options

Wall or floor mounting with IP protection (model dependent) for versatile and secure installation.



Advanced Battery Management System (BMS)

Integrated cell-level monitoring and balancing enhances safety, extends battery life, and maintains consistent performance.



UPS-level Protection

Backup protection that shields against surges, spikes, and unexpected blackouts for continuous, reliable energy.



Smart Monitoring

Track your battery and inverter performance in real time via user-friendly monitoring platform for enhanced control and convenience.



Solar-Ready Hybrid Design

Compatible with on-grid or off-grid solar setups using the VoltX Energy hybrid inverter, enabling smooth UPS-level switching.

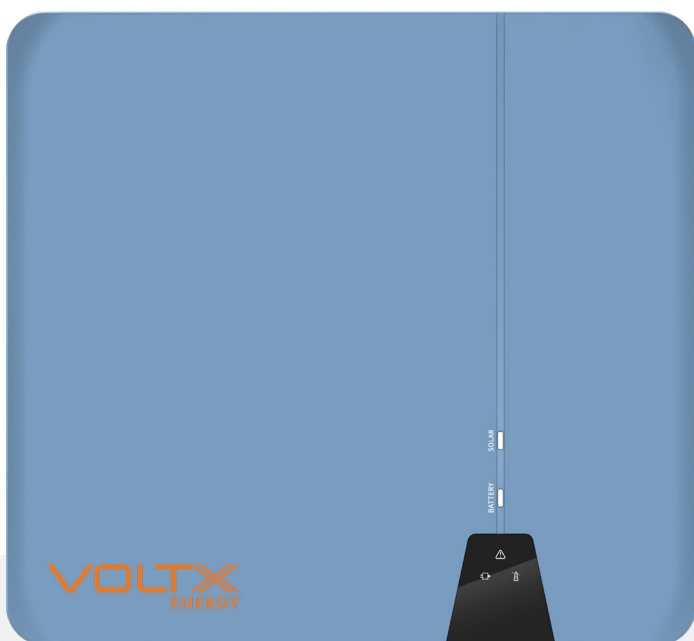


Low-Maintenance Operation

Designed for residential use with low noise output and minimal maintenance requirements for a hassle-free experience.

Single-phase hybrid inverters 5 kW

ASW H-T3 Series



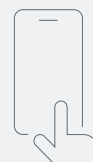
Easy-to-install

- Quick and easy-to-install with standard tools
- Smart setup, commissioning and monitoring via monitoring app
- Compact wall mount design



Safe & reliable

- Smart energy management
- UPS capability - power during blackouts
- IP66 rated design for indoor and outdoor use



User-friendly

- User friendly app interface
- Improved generation under non-ideal conditions

Technical Datasheet

Model					
Item	ASW3000H-S2	SW3680H-S2	ASW4000H-S2	ASW5000H-S2	ASW6000H-S2
PV Input Specification					
Max. PV array power	5500 Wp STC	6180 Wp STC	6500 Wp STC	7500 Wp STC	9000 Wp STC
Max. input voltage	550 V				
MPP voltage range / rated input voltage	40 V to 530 V / 380 V				
Min. input voltage / start voltage	40 V/ 50 V				
No. of independent MPPT trackers / strings per MPPT input	2 / 1				
Max. input current per MPP tracker	16 A				
Max. short-circuit current per MPP tracker	20 A				
Battery input					
Nominal battery voltage	48 V				
Battery voltage range	40 V to 60 V				
Max. charging / discharging power	5000 W / 5000 W				
Max. charging current / Max. discharging current	100 A / 100A				
Battery type	LiFePO4				
Compatible Battery	Aiswei Ai-LB series ³				
AC output					
AC voltage range / Nominal AC voltage	180 V to 280 V / 220, 230 V				
Rated AC grid frequency	50 Hz / 60 Hz				
AC grid frequency range	50 Hz±5Hz / 60 Hz±5Hz				
Rated active power	3000 W	3680 W	4000 W	5000 W* ¹	6000 W
Rated apparent power	3000 VA	3680 VA	4000 VA	5000 VA* ¹	6000 VA
Max. apparent power	3000 VA	3680 VA	4000 VA	5000 VA* ¹	6000 VA
Rated grid output Current (@230V)	13.1 A	16 A	17.4 A	21.7A ²	26.1 A
Max. grid output current	13.6 A	16 A	18.2 A	22.7 A ²	27.3 A
Harmonics THDi (@ Nominal power)	< 3%				
AC input					
Rated grid voltage	a.c. 220, 230V				
Rated apparent power	6000 VA				
Max. input apparent power from grid	6000 VA				
Rated input current from grid	a.c. 26.1 A				
Max. input current from grid	a.c. 27.3 A				
EPS output					
Nominal output voltage	220, 230 V				
Nominal output frequency	50 Hz / 60 Hz				
Rated apparent power	5000 VA				
Max. output apparent power	5000 VA				
Peak output apparent power	7500 VA, 10s				
Rated Current (@230V)	21.7A				
Max. output current	21.7A				
Max. switch time	≤ 10 ms				
Output THDi (@ Linear load)	<3%				
Efficiency					
MPPT efficiency	99.90%				
Euro efficiency / Max. efficiency	97% / 97.6%				
Max. battery to load efficiency	94.70%				

Technical Datasheet

Item	Model	ASW3000H-S2	SW3680H-S2	ASW4000H-S2	ASW5000H-S2	ASW6000H-S2
Safety protection						
DC-side disconnection device				●		
PV string- / Battery input reverse polarity protection				● / ●		
All-pole sensitive residual current monitoring unit				●		
Anti-islanding protection				●		
Ground fault protection				●		
AC output over current / short circuit current protection				● / ●		
AC over voltage protection				●		
Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)				I / AC: III; DC: II		
Arc fault circuit interrupter (AFCI)				O ₄		
General data						
Power factor at rated power / adjustable displacement				≥0.99 / 0.8 leading to 0.8 lagging		
Dimensions (W / H / D)				483 / 455 / 193.5 mm		
Device weight				25.1kg		
Operating temperature range				-25 °C ~ +60 °C		
Noise emissions (typical)				30 dB(A)		
Cooling concept				< 10 W		
Degree of protection (as per IEC 60529)				Natural convection		
Climatic category (according to IEC 60721-3-4)				IP66		
Max. permissible value for relative humidity (non-condensing)				4K4H		
Max. operating altitude				4000m (>3000m power derating)		
Country of manufacture				THE PEOPLE'S REPUBLIC OF CHINA		
Features						
User interface				LED & App		
Communication with BMS				CAN		
Communication with meter				RS485		
Communication with portal				Wi-Fi stick		
Other communication				DRM		
Integrated power control / Zero export control				● / ●		

● Standard features / O optional features / – not available

¹ For VDE-AR-N4105, S_{max}=S_n=4600VA, P_n=4600W ² For AS/NZS4777.2, I_{ac} max=21.7A ³ Including but not limited to the listed models, please check the website for more compatible models ⁴ Please consult local sales team for product availability

Up to 50 kWh Battery

Ai-LB-G3 Series



Optimal performance

- Low self and standby consumption
- Enhanced SOC measurement accuracy for optimal battery management
- Supports up to 1C charge / discharge rate



Safe & reliable


- IP66 rated design for indoor and outdoor use
- Designed in accordance with global safety standards
- Integrated fire suppression system
- Smarter and safer battery management system for precise diagnostics
- Integrated MOSFET and dual fuse protection for superior safety and reliability



User-friendly

- Stackable up to 5 modules
- Elegant design with concealed cable management
- Compact, lightweight modules for easier handling and installation
- 5 selections for operating (LED) indicator via monitoring app

Technical Datasheet

Model		ASW5120-LB-G3
Item		
System Data		
Module		
Cell type	LiFePO4	
Rated capacity	100 Ah	
Nominal energy ¹	5.12 kWh	
Usable energy ²	4.86 kWh	
Nominal battery voltage	51.2 V	
Battery voltage range	40 V ~ 58.4 V	
Recommended charge / discharge current	60 A	
Max. charge / discharge current	100 A	
Rated charge / discharge power	3.07 kW	
Max. charge / discharge power	5.12 kW	
General Data		
Dimensions (W / D / H)	630 / 185 / 320 mm	
Module weight	46.0 kg	
Base weight	2.6 kg	
Installation location	Indoor / Outdoor	
Mounting method	Floor mounted / Wall mounted	
Operating temperature range	Charging: -8 °C ~ 58 °C Discharging: -18 °C ~ 58 °C	
Storage temperature range	-20°C ~ 60°C	
Cooling concept	Natural convection	
Protective class	II	
Degree of protection	IP66	
Relative humidity	0 % ~ 95 % RH, non-condensing	
Max. operating altitude	4000 m (> 3000 m derating)	
Communication	CAN	
Certification	IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000	
Life cycle ³	6000 times	
Round-trip efficiency	≥ 95 %	

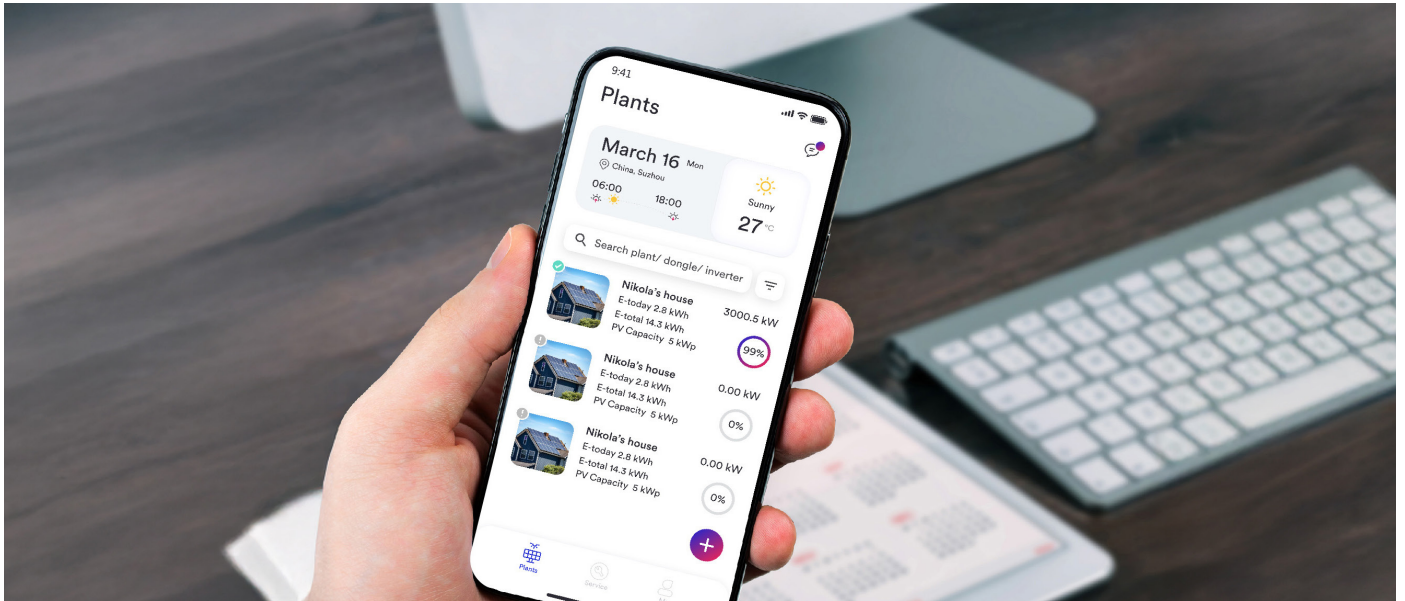
1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4 V, 0.5C charge & discharge at +25°C.

2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 95% DOD.

3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25°C (One cycle a day), 90% DOD, 70% EOL.

Smart cloud-based monitoring system

Cloud & App



Easy-to-install

- Quick setup and commissioning of VoltX Energy inverters
- Quick active/reactive and export power control setup
- Available on Android and iOS devices and accessible via web browsers

Reliable

- Cloud-based monitoring system
- Centralized management of all plant data

User-friendly

- Intuitive navigation
- Clear readability of key plant data
- Performance reports sent via email

DOWNLOAD THE APP NOW



VOLTXX
ENERGY

 www.voltxenergy.com.au