



VOLT X ENERGY HOME BATTERY SYSTEM

40 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.

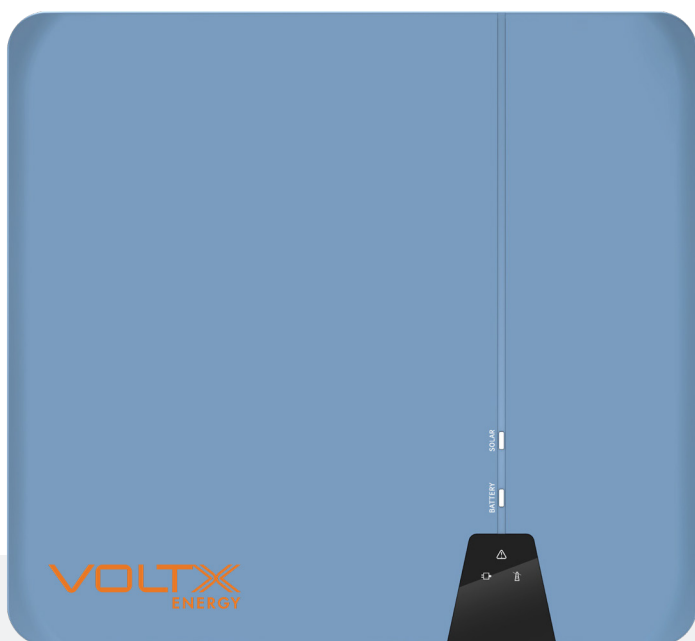


Low-Maintenance Operation

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



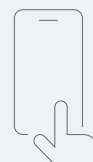
Easy-to-install

- 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

Item	Model	ASW5000H-S2
PV Input Specification		
Max. PV array power		7500 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		5000 W* ¹
Rated apparent power		5000 VA* ¹
Max. apparent power		5000 VA* ¹
Rated grid output Current (@230V)		21.7A ²
Max. grid output current		22.7 A ²
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	ASW5000H-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

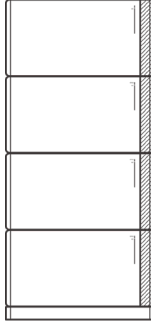
- IP66 rated design for indoor and outdoor use
- Designed in accordance with global safety standards
- Integrated fire suppression system
- Smarter and safer battery management system for precise diagnostics
- Integrated MOSFET and dual fuse protection for superior safety and reliability



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		4
		
Cell type		LiFePO4
Rated capacity		100 Ah
Nominal energy ¹		20.48 kWh
Usable energy ²		19.45 kWh
Nominal battery voltage		51.2 V
Battery voltage range		40 V ~ 58.4 V
Recommended charge / discharge current		210 A
Max. charge / discharge current		210 A
Rated charge / discharge power		10.75 kW
Max. charge / discharge power		10.75 kW
General Data		
Dimensions (W / D / H)		630 / 185 / 1280 mm
Module weight		184.0 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 %

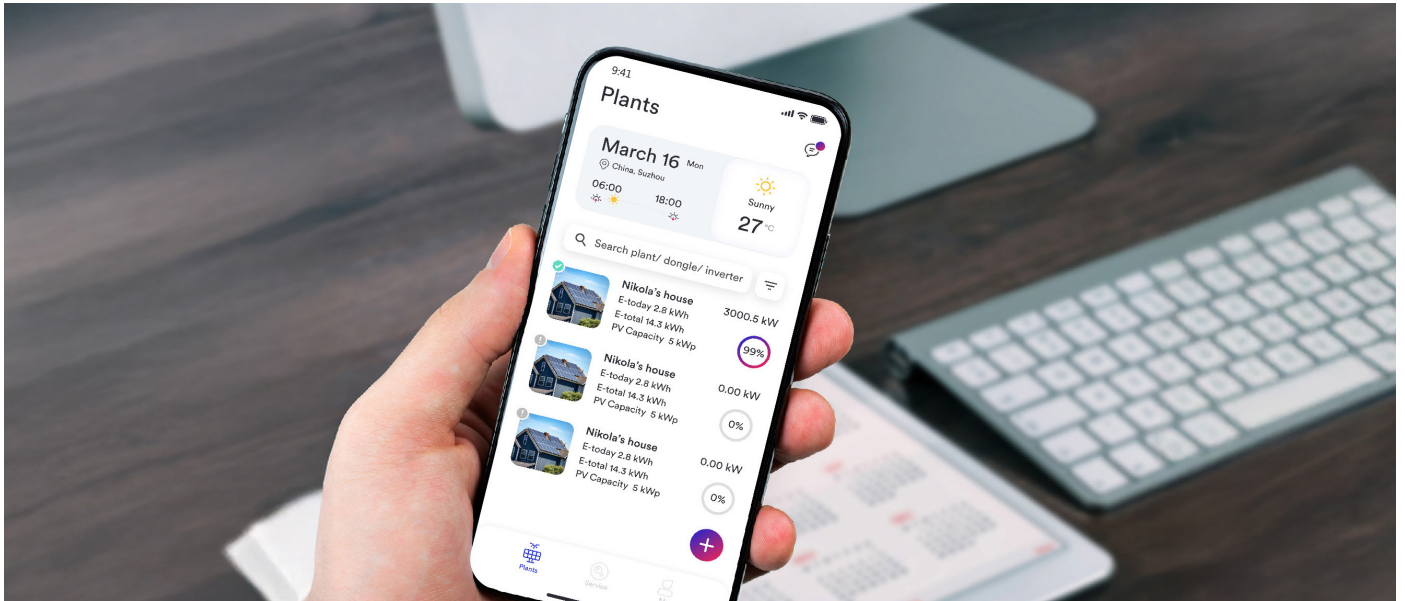
1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4 V, 0.5C charge & discharge at +25°C.

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



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 www.voltxenergy.com.au