VOLTX ENERGY HOME BATTERY SYSTEM

50 kWh Battery & Single-Phase 10 kW Inverter

10-Year Product & Performance Warranty

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

UPS-level Protection

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

High-Capacity LiFePO4 Storage

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

Smart Monitoring

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

Flexible Installation Options

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

Solar-Ready Hybrid Design

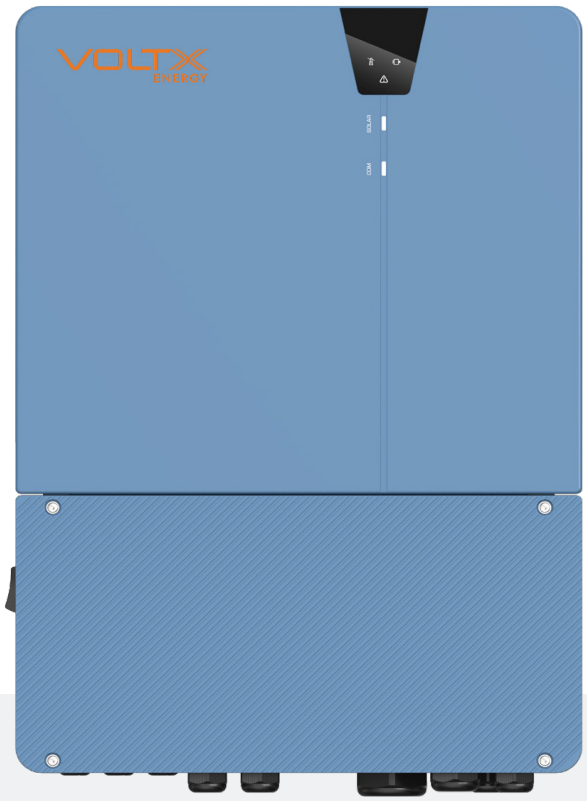
Compatible with on-grid or off-grid solar setups using the VoltX Energy hybrid inverter, enabling smooth UPS-level switching.

Advanced Battery Management System (BMS)

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

Low-Maintenance Operation

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



Single-phase hybrid inverters 10 kW

ASW SH Series

Optimal performance

- 3 independent MPPTs for flexible and optimized large PV array design
- Max. 20 A input current per MPPT, ideal for bifacial and large area PV modules
- Up to 200% PV array oversizing for higher energy yields
- ShadeSol shadow management

Safe & reliable

- UPS-level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Up to 200% power output for 10s during power outages
- Multi-source design for black start, integrating PV, battery, and generator

User-friendly

- Expandable up to 30 kW in on-grid and off-grid mode
- Compatible with both lead-acid and lithium batteries
- Smart setup, commissioning and monitoring via monitoring app

Technical Datasheet

Item \ Model	ASW008K-SH	ASW010K-SH
PV Input Specification		
Max. PV array power	16000 Wp	20000 Wp
Max. input voltage	550 V	
MPP voltage range / rated input voltage	40~530 V / 380 V	
Min. input voltage / start voltage	40 V/ 50 V	
No. of independent MPPT trackers / strings per MPPT input	3 / 1	
Max. input current per MPP tracker	20 A / 10000 W	20 A / 10000 W
Max. short-circuit current per MPP tracker	25 A	
Battery input		
Battery voltage range	40 V to 60V	
Max. charge / discharge power	8000 W	10000 W
Max. charge current / Max. discharge current	190 A	210 A
Battery type	LiFePO4 / Lead-acid	
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	45~55 Hz / 55~65 Hz	
Rated apparent power	8000 VA	10000 VA
Max. apparent power	8000 VA	10000 VA
Rated grid output Current (@230V)	34.8 A	43.5 A
Max. grid output current (@230 V)	38.3 A	47.8 A
Harmonic distortion (THD) at rated output	< 3 % (of nominal power)	
Power factor at rated power / adjustable range	1 / 0.8 leading to 0.8 lagging	
AC input		
Nominal AC voltage	220, 230, 240, L/N	
Rated grid frequency	50 Hz / 60 Hz	
Max. input power from grid	16000 W	18000 W
Max. input current from grid	69.6 A	78.3 A
EPS output		
Nominal AC voltage	220, 230, 240, L/N	
Nominal output frequency	50 Hz / 60 Hz	
Rated apparent power	8000 VA	10000 VA
Peak output apparent power (off-grid up to 10s)	16000 VA	20000 VA
Rated current (@230 V)	34.8 A	43.5 A
Max. current (@230 V, continuous on-grid / off-grid)	38.3 A	47.8 A
Max. switch time	< 10 ms	
Output THDv (@ Linear load)	2%	
Generator side		
Max. input apparent power	8000 VA	10000 VA
Max. charge / discharge power	8000 VA	10000 VA
Max. input current	36.4 A	45.5 A
Rated AC voltage	220, 230, 240, L/N	
Rated AC frequency	50 Hz / 60 Hz	
Efficiency		
MPPT efficiency	99.90%	
European efficiency / Max. efficiency	97 % / 97.6 %	

Technical Datasheet

Item \ Model	ASW008K-SH	ASW010K-SH
Safety protection		
Surge protection	● / Type	
Insulation resistance detection	II ●	
PV string input reverse polarity protection	●	
Ground fault monitoring	●	
Residual current monitoring unit	●	
AC short circuit protection	●	
Anti-islanding protection	●	
General data		
Dimensions (W / H / D)	484 / 679 / 230 mm	
Device weight	34.5 kg	
Operating temperature range	-25 °C ~ +60 °C	
Cooling concept	Smart cooling	
Degree of protection (as per IEC 60529)	IP66	
Max. relative humidity	100%	
Max. operating altitude	3000 m	
Features		
User interface	LED & App	
BMS interface	CAN	
Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100Mbps, Modbus TCP only)	
Digital output (dry contact) / No. of outputs	● / 2	
Digital input (dry contact) / No. of inputs	● / 6	
Integrated power control / export power control	● / ●	

● Standard features / ○ optional features / – not available

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

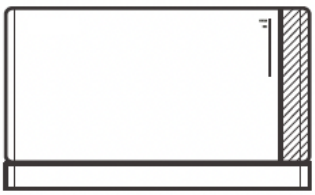
Safe & reliable

- 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 batteries
- 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

Item \ Model	ASW5120-LB-G3
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 %

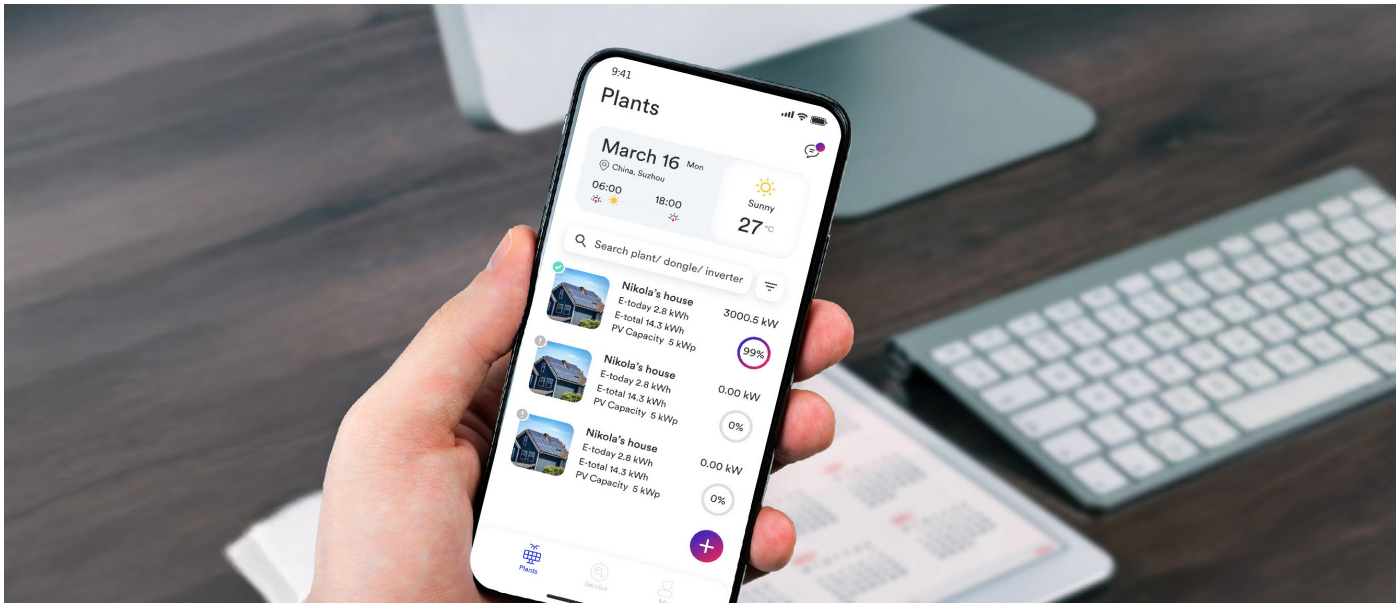
1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4 V, 0.5C charge & discharge at +25°C.

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

Download on the App Store

Get it on Google Play

VOLTX ENERGY

www.voltxenergy.com.au