VOLTX ENERGY HOME BATTERY SYSTEM

50 kWh Battery & Three-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.

Three-phase hybrid inverters 10 kW

ASW H-T3 Series

Easy-to-install

- Quick and easy-to-install with standard tools
- Compact wall mount design
- Simple battery and smart meter interfaces for quick and secure installation

Safe & reliable

- Up to 150 % PV array oversizing for higher yields
- Available with or without asymmetrical power output [1)]
- UPS level switching time < 10 ms
- IP66 rated design for indoor and outdoor use
- Arc fault circuit interrupter (AFCI) [2)]
- ShadeSol shadow management

User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Smart setup, commissioning and monitoring via monitoring app
- Intelligent operation modes and smart battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules
- Supporting parallel for on-grid and off-grid operation

Technical Datasheet

Item \ Model	ASW10kH-T3	
PV Input Specification		
Max. PV array power	15000 Wp	
Max. input voltage	1100 V [5]	
MPP voltage range / rated input voltage	200 V to 950 V / 630 V [3]	
Min. input voltage / start voltage	60 V / 180 V	
No. of independent MPPT trackers / strings per MPPT input	3 / 1	
Max. input current per MPP tracker	16 A	10000 W
Max. short-circuit current per MPP tracker	24 A	
Battery input		
Battery voltage range	120 V to 600 V [5]	
Max. charge / discharge power	10000 W	
Max. charge current / Max. discharge current	30 A [5]	
Battery type	LiFePO4	
AC output		
AC voltage range / Nominal AC voltage	270V to 480V / 3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V	
Rated AC grid frequency	50 Hz / 60 Hz	
AC grid frequency range	45 ~ 55 Hz / 55 ~ 65 Hz	
Rated apparent power	10000 VA	
Max. apparent power	10000 VA	
Rated grid output current (@400 V)	14.5 A	
Max. grid output current(@400 V)	16.0 A	
Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging	
Harmonics THDi (@ Nominal power)	< 3 % (of nominal power)	
AC input		
Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V	
Rated grid frequency	50 Hz / 60 Hz	
Max. input power from grid	20000 W	
Max. input current from grid	29.0 A	
EPS output		
Nominal output voltage	3/N/PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V	
Nominal output frequency	50 Hz / 60 Hz	
Rated apparent power	10000 VA	
Rated current (@400 V)	14.5 A	
Max. current (@400 V, continuous on-grid / off-grid)	29.0 A	14.5 A
Max. power on each phase (@400 V, continuous on-grid / off-grid)	6667 W	3333 W
Peak output apparent power(@400V, continuous on-grid / off-grid up to 10s)	20000 VA	20000 VA
Max. switch time	< 10 ms	
Output THDv (@ Linear load)	2%	
Efficiency		
MPPT efficiency	99.9 %	
European efficiency / Max. efficiency	97.9 % / 98.4 %	

Technical Datasheet

Item \ Model	ASW10kH-T3
Safety protection	
DC surge protection(Type II, according to EN/ IEC 61643-11)	●
Insulation resistance detection	●
PV string input reverse polarity protection	●
Battery input reverse polarity protection	●
Ground fault monitoring	●
Residual current monitoring unit	●
AC short circuit protection	●
Anti-islanding protection	●
Arc fault circuit interrupter (AFCI)	○ [2]
General data	
Dimensions (W / H / D)	545 / 465 / 205 mm
Device weight	26 kg
Operating temperature range	-25 °C ~ +60 °C
Cooling concept	Natural convection
Noise emission	< 35 dB
Degree of protection (as per IEC 60529)	IP66
Max. relative humidity	100%
Max. operating altitude	4000 m
Features	
User interface	LED & App
BMS interface	CAN
Smart meter interface	RS485
Communication interfaces	Dongle: WiFi (2.4 GHz) / LAN (100 Mbps) Inverter: RS485 (ModBus RTU), LAN (100 Mbps, Modbus TCP only) [4]
Digital output (dry contact) / No. of outputs	● / 2
Digital input (dry contact) / No. of inputs	● / 4
Integrated power control / export power control	● / ●

● Standard features / ○ optional features / – not available

1) Asymmetrical power output functionality released in August 2024, please confirm version with VoltX Energy's sales staff before purchase.

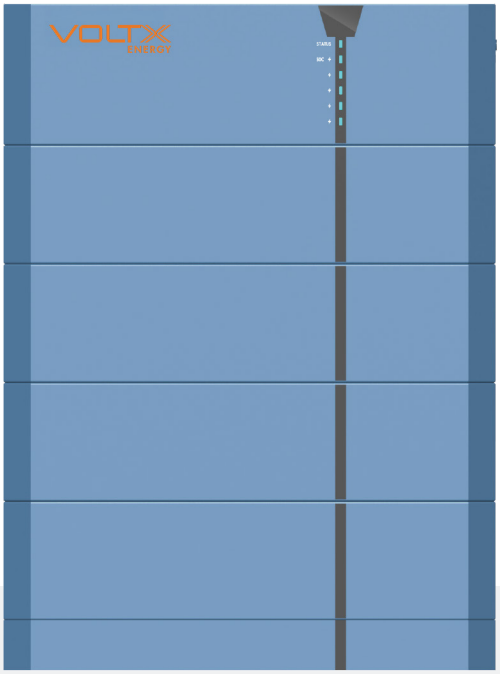
2) AFCI functionality released in April 2025, please confirm version with VoltX Energy's sales staff before purchase.

3) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

4) Modbus TCP functionality released in April 2025, please confirm version with VoltX Energy's staff before purchase.

5) When connecting to VoltX Energy's Ai-HB G2 batteries (with only 5 kWh, i.e. two modules), limitations as below apply:

1. The maximum voltage of PV shall not exceed 750V
2. The battery voltage range is reduced to 102.4 V for the particular operation
3. The maximum charging and discharging current depends on the operating point and is within the range greater than 25A, less than 30A



Up to 50 kWh Battery

Ai-HB G2 Pro Series

Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 163.48 kWh (supporting 8 modules per unit, 8 units in parallel)
- IP65 rated design for indoor andoutdoor use
- Multi-use applications: self-consumption, time of use tariffs, customisation

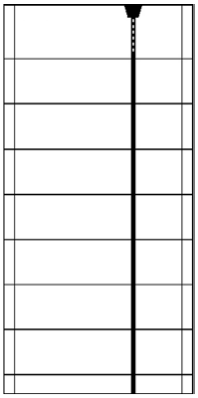
Safe & reliable

- VDE-compliant with enhanced protection
- Smarter and safer battery management system for precise diagnostics
- LFP safe technology with long lifespan
- Built-in fire suppression functionality

User-friendly

- Steady and anti-dumping design
- Quick & easy-to-install with standard tools
- Modular design with plug-in connec-tions
- Quick connections between battery and inverter

Technical Datasheet

Item \ Model	Ai-HB Pro 200A
System Data	
Battery design	
Battery module	HB051050B
Cell type	LiFePO4
Module quantity	7
Rated capacity	50 Ah
Nominal energy[1]	17.92 kWh
Usable energy[2]	17.02 kWh
Nominal voltage	358.4 V
Battery voltage range	280 V ~ 408.8 V
Recommended charge / discharge current	50 A / 50 A
Max. charge / discharge current	50 A / 50 A
Rated charging / discharging power	17.92 kW
Max. charging power	17.92 kW
Max. discharging power	17.92 kW
General Data	
Dimensions (W / D / H)	540 / 390 / 1120 mm
Weight	233.0 kg
Battery module weight	31.0 kg
Installation location	Indoor / Outdoor
Mounting method	Floor mounted
Operating temperature range	Charge: 2 °C ~ 58°C Discharge: -28 °C ~ 58 °C
Storage temperature range	-20 °C ~ 45 °C
Cooling concept	Natural convection
Degree of protection	IP65
Relative humidity	5 ~ 95 %, non - condensing
Max. operating altitude	3000 m (> 2000 m derating)
Communication	CAN
Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression, etc
Certification	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3
Life cycle[3]	8000 times
Round-trip efficiency	≥ 95 %

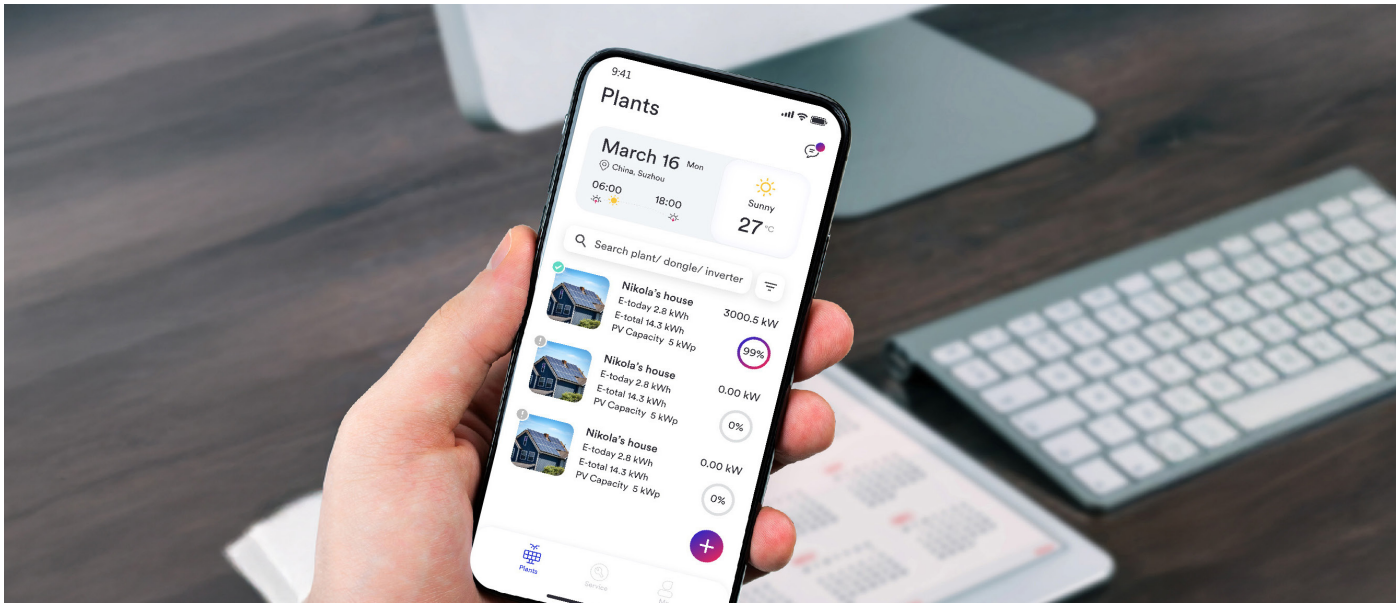
1. Nominal energy is defined under the following conditions: cell voltage 2.5~3.65V, 0.5C charge / discharge at +25°C.

2. Usable energy is defined under the following conditions: 95% DOD, 0.5C charge / discharge at +25°C. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.

3. Life cycle is defined under the following conditions: 90% DOD, 70% EOL, 0.2C charge / discharge at +25°C.

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

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