



VOLT X ENERGY WHALE SOLAR BATTERY SYSTEM

50 kWh Battery & Three-Phase 12 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.



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



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 outdoor use



User-friendly

- 3 independent MPPTs for flexible and higher kWp PV array design
- Setup, commissioning and monitoring via app
- Intelligent work modes and customisable battery management for DOD / Time of Use / Power setting
- Max. 16 A input current, ideal for bifacial and large PV modules

Technical Datasheet

Model	ASW12kH-T3	
Item		
PV Input Specification		
Max. PV array power	18000 Wp	
Max. input voltage	1100 V	
MPP voltage range / rated input voltage	200 V to 950 V / 630 V ²⁾	
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	
Max. charge / discharge power	12000 W	
Max. charge current / Max. discharge current	30 A	
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	12000 VA	
Max. apparent power	12000 VA	
Rated grid output current (@400 V)	17.4 A	
Max. grid output current(@400 V)	19.2 A	
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	24000 W	
Max. input current from grid	34.8 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	12000 VA	
Rated current (@400 V)	17.4 A	
Max. current (@400 V, continuous on-grid / off-grid)	34.8 A	17.4 A
Max. power on each phase (@400 V, continuous on-grid / off-grid)	8000 W	4000 W
Peak output apparent power(@400V, continuous on-grid / off-grid up to 10s)	24000 VA	24000 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

Model		ASW12kH-T3
Item		
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) The latest optimised platform design supports MPP voltage range at 150V-950V, pending subsequent certificate updates.

High Voltage Battery 10 to 51 kWh

AP-H Series



Easy-to-install

- Stackable up to 51.2 kWh per tower, max. 4 towers in parallel (204.8 kWh)
- Plug-and-play design for simplified installation



Safe & Reliable

- Built-in emergency fire suppression module
- IP65 rated design for indoor and outdoor use
- Built with durable LFP technology and an intelligent battery management system



User-Friendly

- 51 kWh tower at just 1.8 meters in height
- Lightweight modules for easier handling and installation
- Compact design fits for narrow spaces like garages and walkways
- 5 selections for operating (LED) indicator via Solplanet's App

Technical Datasheet

Model/ Item	APH5.0-S2	APH5.0-S3	APH5.0-S5	APH5.0-S6	APH5.0-S8	APH5.0-S10
System Data						
Battery designation						
Battery module	AP-H5.0					
Module quantity	10					
Cell type	LiFePO4					
Rated capacity	100 Ah					
Nominal energy1	51.2 kWh					
Usable energy2	51.2 kWh					
Nominal voltage	512.0 V					
Battery voltage range	400 V - 592 V					
Recommended charge / discharge current	50 A / 50 A					
Max. charge / discharge current	50 A / 50 A					
Rated DC power	25.6 kW					
Rated charge / discharge power	25.6 kW					
Max. charge / discharge power	25.6 kW					
General Data						
Dimensions(W / D / H)	1040 / 250 / 1800 mm					
Weight	479.0 kg					
Installation location	Indoor / Outdoor					
Mounting method	Floor mounted					
Operating temperature range	Charge: 0 °C ~ 58 °C Discharge: -20 °C ~ 58 °C					
Storage temperature range	-20 °C ~ 60 °C					
Cooling concept	Natural convection					
Protective class	I					
Degree of protection	IP65					
Relative humidity	5 % - 95 %, non-condensing					
Max. operating altitude	4000 m (>3000 m derating)					
Communication	CAN					
Country of manufacture	China					
Certification	IEC 62619, IEC 62040, IEC 63056, IEC 61000					
Cycle life3	6000 times					
Round-trip efficiency	≥ 95 %					

1. Nominal energy is defined under the following conditions: 0.5C charge & discharge at 25 °C.
2. Usable energy is defined under the following conditions: 100 %DOD, 0.2C charge & discharge at 25 °C.
3. Cycle life is defined under the following conditions: 90 %DOD, 0.5C charge & discharge at 25 °C (One cycle a day), 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

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