



Product Introduction

TIANWU-AIO Series, a liquid cooling all-in-one commercial and industrial ESS, is integrated with energy storage converter, battery, BMS, EMS, thermal management, power distribution, fire protection, etc. The all-in-one design is easy for installation and O&M. Meanwhile, the safety design of the system ensures a better battery performance and longer service life. Multiple sets of cabinets can be directly connected in parallel to realize energy storage system expansion.

Economical

- Highly integrated ESS for easy transportation and O&M.
- The integrated design allows the site to be quickly set up and used.

Liquid cooling

- The temperature deviance of battery cells in the whole system is within 2°C, due to intelligent liquid cooling system.
- It can expand the life time of the battery cells up to 20%.

Safe

- The system has four levels management structure which can accurately provide short circuit protection, over current protection, over voltage protection, under voltage protection, over temperature protection, etc.



Commercial and industrial energy storage + emergency power backup



Mobile Energy Storage System



PV storage charging station

TIANWU-AIO Series

Technical Specifications

Model	WH-TIANWU-100-233A	WH-TIANWU-100-233B
Battery Parameters		
Rated Capacity (kWh)	233	
Rated Voltage DC (V)	832	
Battery Type	LFP (from CATL)	
Cell Specification	3.2V 280Ah	
System Battery Configuration	1P*52S*5S	
AC Parameters		
Rated Power (kW)	100	
Max. Output Power (kW)	110	
Rated Voltage AC	380V, 3W+PE	400V, 3W+PE
Rated Frequency AC (Hz)	50/60	
Max. THD of Current	< 3% (at nominal power)	
Power Factor	-1...+1	
General Data		
Protection Level	IP55	
Inverter Topology	Non-isolated	
Operating Temperature Range	-20...+55°C (derating @ > 45°C)	
Cooling Method	Liquid cooling (PCS) Liquid cooling (Battery)	Air cooling (PCS) Liquid cooling (Battery)
Altitude (m)	2000	
Communication Protocols	Modbus, TCP/IP	
Dimensions (W*D*H) (mm)	1400*1350*2100	
Weight (kg)	~2700	

*The final technical parameters may be adjusted according to the certification standards.

*WH-TIANWU-100-233B will be launched to the market first.

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