



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 3°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



On-grid All-in-one
Energy Storage System



Excessive Solar Storage

TIANWU-AIO Series

Technical Specifications



Model	WH- TIANWU- 50- 233B		WH- TIANWU-100- 233B	
System Parameters				
Rated capacity	233kWh			
Rated voltage DC	832VDC			
Max. DC Voltage	936VDC			
DC voltage operating range	728-936VDC			
Battery type	LFP(LiFePO4)			
Cell specification	3.2V/280Ah			
Connection mode	1P260S			
AC Parameters				
Input Start-Up Voltage	680V			
Rated Power	50kW		100kW	
Max. Output Power	50kW		100kW	
Rated Output Power in VA	50kVA		100kVA	
Rated Output Current	72A		144A	
Rated Voltage AC	400V,3P+N+PE			
Rated Frequency AC	50Hz			
Max. THD of Current	< 3%			
Power Factor	-1~+1			
General Data				
Overvoltage Category(OVC)	II for DC Side III for AC Side			
Method of Active Anti-islanding	Frequency shift			
Inverter Topology	Non-isolated			
Protective Class	Class I			
Degree of Protection	IP55			
Operating Temperature Range	-20...+55°C (derating @>45°C)			
Cooling Method	Air Cooling(PCS) Liquid Cooling(Battery)			
Environmental Relative Humidity	0~100%			
Altitude	2000m			
Communication Protocols	Modbus, TCP/IP			
Dimensions(W*D*H)	1400*1350*2100mm			
Weight	~2700kg			
Manufacture Country	China			

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

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