

TIANWU-AIO-L

C&I all-in-one battery energy storage system

CACTUS



Product Introduction

TIANWU-AIO-L 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.



Industrial and commercial energy storage + emergency power backup



Mobile Energy Storage System



PV storage charging station

Technical parameters

Model	WH-TIANWU-100-233A	WH-TIANWU-100-233B
Battery Parameters		
Rated capacity	233kWh	
Rated voltage DC	832V	
Battery type	LFP (from CATL)	
Cell specification	3.2V 280Ah	
System battery configuration	1P*52S*5S	
AC Parameters		
Rated power	100kW	
Max. Output Power	110kW	
Rated voltage AC	380V, 3P+N+PE	400V, 3P+N+PE
Rated frequency AC	50/60Hz	
Max.THD of current	< 3% (at nominal power)	
Power factor	-1~+1	
General Data		
Protection level	IP54	
Inverter topology	Non-isolated	
Operating temperature range	-20~60°C (derating @ > 45°C)	
Cooling method	Liquid cooling (PCS) Liquid cooling (Battery)	Air cooling (PCS) Liquid cooling (Battery)
Altitude	Max. 3000m(derating @ >2000m)	
Communication protocols	Modbus, TCP/IP	
Dimensions (W*D*H)	1400*1350*2100mm	
Weight	~2500kg	

*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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