

ZPB 5.0

ENERGY STORAGE SYSTEM



TECHNICAL SPECIFICATIONS

MODEL		ZPB 5.0
Electrical Parameters		
Cell Type	Ah	LFP-314
Cell Cycle Life		> 12,000*
Rated Voltage of Single Cell	Vdc	3.2
Pack Configuration		1P104S
Rack Configuration		1P416S
System Configuration		12P416S
System Nominal Energy	kWh	5015 4170
System Rated Voltage	Vdc	1331.2
System Voltage Range	Vdc	1040 ~ 1497.6
Charge / Discharge Rate	°C	<0.5p@25
Components		
High Voltage Box		Integrated
Confluence Cabinet		Integrated
Monitoring System (HMI)		Integrated
Fire Suppression System		<ul style="list-style-type: none"> » Explosion-proof Exhaust and Ventilation System » Temperature/Smoke/Combustible Gas Detection System » PACK-level submerged Fire Extinguishing System » Aerosol Fire Extinguishing System » Prefabricated Water Sprinkler System (Optional)
Thermal Management System		<ul style="list-style-type: none"> » Integrated Liquid Cooler 60kW Cooling Capacity for Battery » Air-cooling for Other Equipment
EMS		Not Integrated
BMS		Integrated Option: U.S. Manufactured

*70% capacity retention after 12,000 cycles (0.5P charge/discharge, 90% DoD at 25+2°C)

Specifications provided are preliminary and subject to change.

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Conditions		
Storage Temperature	°C	-30 ~ 60
Working Ambient Temperature	°C	-30 ~ 45/(>45 Derating)
Working Relative Humidity		0% ~ 95% (Non-condensing)
Working Altitude	m	<3000 (>3000m Derating)
Other Parameters		
Ingress Protection		IP55 (Except Liquid Cooler)
Communication Interface		CAN, RS-485, Ethernet
Communication Protocol		CAN, Modbus-TCP/IP, Modbus RTU, IEC104
Dimensions (W×D×H)	mm	6058×2438×2896
Weight	t	44
Standards & Certification		UL9540A, UL9540, UL1973, UN38.3, UN3536, NFPA855, NFPA69, RoHS, Reach, (EU) 2023/1542, IEC 62477-1, IEC 60529, IEC 61000-6-2, IEC 61000-6-4, IEC 62933-5-2, IEC 63056, IEC 62619, GB/T 36276

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