

# ZPB 5.0

## ENERGY STORAGE SYSTEM



### TECHNICAL SPECIFICATIONS

MODEL		
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"> <li>» Explosion-proof Exhaust and Ventilation System</li> <li>» Temperature/Smoke/Combustible Gas Detection System</li> <li>» PACK-level submerged Fire Extinguishing System</li> <li>» Aerosol Fire Extinguishing System</li> <li>» Prefabricated Water Sprinkler System (Optional)</li> </ul>	
Thermal Management System	<ul style="list-style-type: none"> <li>» Integrated Liquid Cooler 60kW Cooling Capacity for Battery</li> <li>» Air-cooling for Other Equipment</li> </ul>	
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.

# TECHNICAL SPECIFICATIONS

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	

Specifications provided are preliminary and subject to change.