

# Air-cooled Prefabricated Cabin Energy Storage Battery System









TBAT-5017-15-A

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## Product Overview

Air-cooled prefabricated cabin energy storage battery system is a large-capacity battery energy storage device with standardized design and flexible configuration. This product integrates energy storage battery, BMS, convergence cabinet, temperature control system and fire protection system, and can be used with mainstream energy storage converters for various energy storage application scenarios. The new generation 5MWh air-cooled product adopts a distributed air-conditioning solution with excellent temperature control performance and making it particularly suitable for cold and high-altitude environments. The highly integrated structural design of the product can significantly save land and shorten the construction period for users.

-  40 feet maximum 6.7MWh, high energy density.
-  C3 corrosion rating for up to 25 years of life.
-  Intelligent air-cooled heat pipe system, temperature difference inside the box <math>< 5^{\circ}\text{C}</math>.
-  Fully loaded for transportation and quick installation.
-  High altitude design, up to 5000m.
-  Active fire safety system.
-  Customizable thickened thermal insulation layer, adaptable to high cold environment.
-  Emergency water fire protection system interface.



产品型号	TBAT-3727-15-L	TBAT-5016-15-L
Container Specifications	40 Feet	20 Feet
Voltage Level	1500V	1500V
Battery Type	LiFePO4	
Unit Capacity	280Ah	314Ah
Single Cluster Module Specifications	25	1P104S
Number of module strings	16	4
Max. Voltage Per Unit	3.6V	3.6V
Min. Voltage Per Unit	2.8V	2.8V
Grouping Method	1P400S	1P416S
Battery Clusters	14	12
Nominal Voltage	1280V	1331.2V
Voltage Range	1120~1400V	1164.8~1497.6V
Nominal Capacity	3920Ah	3768Ah
Nominal Power	5.018MWh	5.016MWh
Charge/Discharge Ratio	0.5C	
Charge/Discharge Current	1960A	1884A
Operating Temperature	-25 ~ 50°C	
Cooling	Air cooling	
Relative Humidity	≤95%RH, without condensation	
Max. Altitude	≤5000m ( Customized for 3000m or more )	
IP Level	IP54	
Anti-corrosion grade	C3	
Fire Protection	CF3CHF3 / C6F12O / Aerosols	
Weight	52T	43T
Dimensions (W×D×H)	13716×2438×3015 mm	6058×2438×2896 mm

