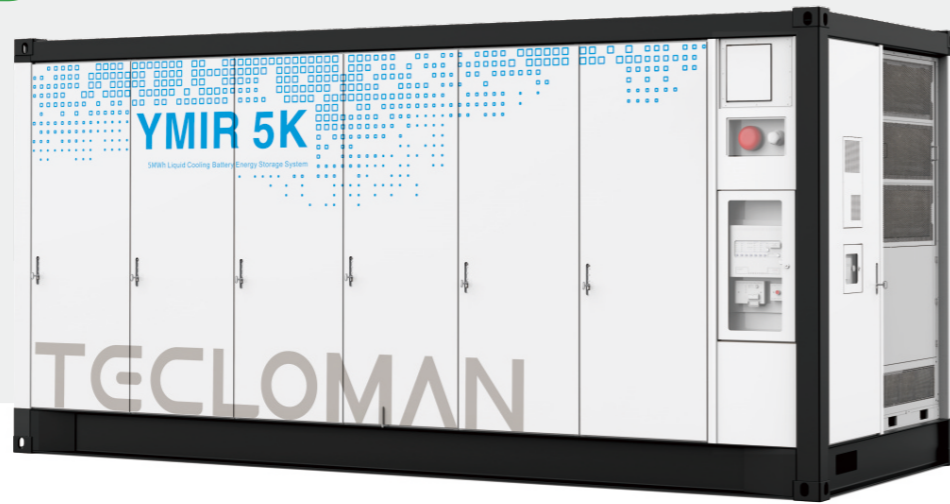


Ymir 5K









Liquid-cooled prefabricated energy storage battery system

TESS-2500-5016



Product Overview

The liquid-cooled prefabricated energy storage battery system is a high-capacity battery storage solution featuring a standardized design and flexible configuration. The system integrates energy storage batteries, an advanced Battery Management System (BMS), power distribution, temperature control, and fire protection into a single unit, and can be used in conjunction with mainstream energy storage converters (PCS) for a wide range of applications. The new generation 5 MWh liquid-cooled product features a highly integrated structural design, significantly reducing footprint and shortening installation time for users.

-  20-ft 5 MWh system with 30% higher energy density
-  Intelligent liquid cooling thermal management with $\leq 3^{\circ}\text{C}$ temperature difference inside the container
-  High-altitude design, supporting up to 5000 m
-  Customizable insulation thickness for cold-climate applications
-  C3 anti-corrosion rating with a design life of up to 25 years
-  Factory pre-assembled for transportation and rapid installation
-  Active fire protection system
-  Interface for emergency firefighting system



Model	TBAT-5016-15-L
Container Size	20 ft
Voltage Class	1500V
Battery Chemistry	Lithium Iron Phosphate (LFP)
Cell Capacity	314Ah
Module Configuration	1P104S
Modules per Cluster	4
Nominal Cell Voltage	3.6V
Minimum Cell Voltage	2.8V
System Configuration	1P416S
Number of Clusters	12
Nominal Voltage	1331.2V
Voltage Range	1164.8~1497.6V
Nominal Capacity	3768Ah
Nominal Energy	5.016MWh
Charge/Discharge Rate	0.5C
Charge/Discharge Current	1884A
Operating Temperature	-25~50°C
Cooling Method	Liquid cooling
Relative Humidity	$\leq 95\%$ RH, non-condensing
Operating Altitude	≤ 5000 m (customized above 3000 m)
Ingress Protection	IP54
Corrosion Protection	C3
Fire Protection	Heptafluoropropane / Aerosol
Weight	43T
Dimensions (W x D x H)	6058x2438x2896mm

