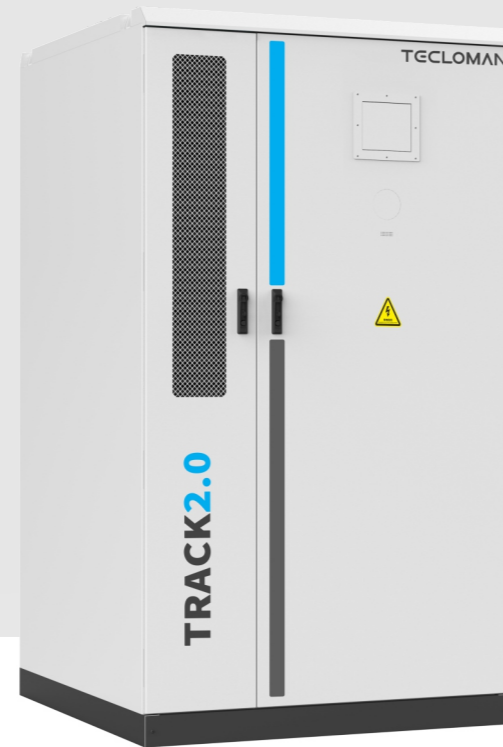


TRACK 2.0

Outdoor liquid-cooled battery energy storage cabinet










Track-499-630-Y

Track-665-630-Y



Product Overview

The outdoor liquid-cooled battery cabinet, based on an "All-in-One" modular integrated architecture, integrates battery clusters (1 to 8 PACKs), BMS, liquid cooling air conditioner, fire protection, and thermal management systems into a single standardized cabinet. It can be connected individually or used in parallel with PCS, featuring a small footprint, high reliability, easy installation, flexible scalability, convenient maintenance, and high system efficiency. It is suitable for various application scenarios such as microgrids, emergency backup power, peak shaving and valley filling, and distributed renewable energy integration.

-  Out-door cabinet design enables direct outdoor installation.
-  High overall performance with a built-in NFPA 69-compliant independent fire suppression system.
-  Compatible with 1000V/1500V systems.
-  Intelligent BMS system with real-time monitoring for enhanced system safety.
-  High-efficiency liquid cooling technology with a temperature difference $\leq 4^{\circ}\text{C}$.
-  Advanced thermal insulation and fire-resistant materials with a fire resistance rating of 2 hours.
-  IP54.
-  High energy density.
-  Active equalization: Effectively control the battery pressure difference, and increase the energy usage rate by more than 20% in the whole life cycle of the system.

Model	Track-499-630-Y	Track-665-630-Y
Cell type	LFP 3.2V/315Ah	
Configuration	2P156S	2P208S
Nominal capacity	630Ah	630Ah
Nominal power	314kWh	419kWh
Nominal voltage	499.2VDC	665.6VDC
Operating Voltage Range	436.8~561.6 VDC	582.4~748.8VDC
Nominal charge/discharge current	315A	
Max. charge/discharge current	400A	
Low voltage power supply mode	220V~50/60HZ 20A Non-UPS power supply	
Charge/discharge efficiency	$\geq 95\%$ without auxiliary consumption	
Cycle life	≥ 6000 Cycles	
Operating Temperature	Charging temperature: 0~55°C, Discharging temperature: -20~55°C	
Recommended operating temperature	15°C~ 40°C	
Storage temperature	Within one month: -30°C~+55°C, 90%RH Max Within three months: -10°C~+45°C, 90%RH Max Recommended storage temperature: -10°C ~+ 25°C ,85%RH Max)	
Altitude	$\leq 4000\text{m}$ (Derated above 2000m)	
Thermal management mode	Liquid-cooled	
Equalisation	Active / Passive	
Relative humidity	5~90%RH	
IP grade	IP54	
Dimension WxDxH	1300x1300x2320mm ($\pm 5\text{mm}$)	
Weight	$\approx 3098\text{kg}$	$\approx 3814\text{ kg}$
Communication mode	Modbus / CAN2.0 / RS485	
Certificates	IEC62477-1, IEC61000-6-2/4, IEC62619, UL1973, UI9540A, UN38.3, under certification	

