


Alcor


TESS-125-262-LTE




Product Overview

The Alcor Commercial & Industrial Liquid-Cooled Energy Storage Cabinet is a standardized outdoor enclosure that integrates long-life battery cells, innovative battery management system (BMS) control strategies, high-performance power conversion systems (PCS), intelligent temperature control systems, and active fire protection control systems. Designed with completely separate compartments for electrical components and battery modules, it significantly enhances thermal management reliability and fire safety. Suitable for a wide range of applications including peak shaving, renewable energy integration, dynamic capacity expansion, and low-voltage grid regulation.

 High-efficiency liquid cooling technology, battery temperature difference <math>< 5^{\circ}\text{C}</math>.

 Integrated design, pre-assembled for transportation, ready for immediate connection and use.

 Intelligent monitoring system with unified BMS and EMS control for enhanced safety and smart operation.

 Built-in independent fire protection system.

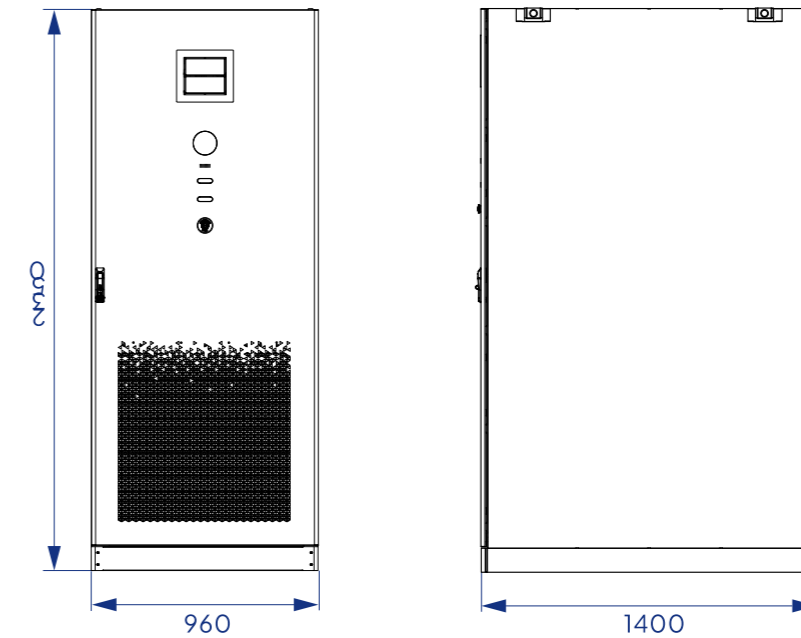


Model	TESS-125-262-LTE
AC (On-Grid)	
Rated Power*	125kW
Rated Voltage	400V
Rated Current	180A
AC System Wiring Type	3L/N/PE
Voltage Range	400Vac(-15% ~ +10%)
Rated Frequency	50Hz/60Hz
THDI	<math>< 3\%</math> (Rated power)
Power Factor	> 0.99
Power Factor Range	± 1
Overload Capability	110% overload (10 min), 120% overload (1 min)
AC (Off-grid)	
Rated Power	125kW
Rated Voltage	400V
Rated Current	180A
Rated Frequency	50/60Hz
THDU	<math>< 3\%</math> (Linear load)
DC (Battery)	
Cell Type	LFP 3.2V/315Ah
Configuration	260S1P
Charge/Discharge Rate	≤ 0.5
Rated Battery Voltage	832V
Battery Voltage Range	702V ~ 936V DC
Basic Parameters	
Noise	<math>< 75\text{dB}</math>
Protection Rating	IP54
Corrosion Protection	C3
Operating Temperature	-20 ~ 55°C
Firefighting Agent	Aerosol

Model	TESS-125-262-LTE
Cooling Method	Module liquid cooling + PCS air cooling
Relative Humidity	0 ~ 95%, without condensation
Max. Altitude	≤4000m (Derated above 2000m)
Dimensions (WxDxH)	960x1400x2350 mm
Weight	2500kg
Certifications	Battery: IEC61000-6-2/4, IEC62477-1, IEC62619, UI1973, UL9540A, UN38.3 PCS: IEC62477-1, EN61000-6-2/4, EN50549-1/10
Communication	
Display	Touch Screen
Communication Interface	1RS485+1WAN+1LAN
Communication Protocol	Modbus TCP/RTU

*Note: PCS power options include 100kW, 110kW, and 125kW.
Maximum battery power shall not exceed 0.5P.

 **Product Dimensions**



 **Internal Structure**

