

Alcor

Liquid cooling BESS for C&I

TESS-100-233-Y

TESS-120-233-Y

TESS-240-233-Y



Product Overview

The Alcor liquid cooling energy storage system, long-life battery cells, new BMS control methods, high-performance PCS, intelligent temperature control system, and active fire control system are integrated into the standardized outdoor cabinets. Alcor is designed with the concept of completely independent electrical and battery components spaces, to enhance the reliability of system temperature control and fire safety protection. The product is applied in various application scenarios, such as peak shaving, renewable energy storage, dynamic expansion, and low voltage supporting of power grid.

High Efficiency Liquid Cooling Technology, Battery Cell Temperature Difference <math>< 3^{\circ}\text{C}</math>.

All-in-one Design, Cabinet Transportation, Plug-in and Ready To Use.

Intelligent Monitoring System, Integrated Management Of BMS and EMS. More Intelligent and Safe

Built-in Independent Fire Protection System

PCS Certifications: EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, IEC 62477-1:2012/AMD1:2016, EN 62477-1:2012/A1:2017, VDE-AR-N 4105:2018-11, DIN VDE V 0124-100:2020-06, EN 50549-1: 2019; Module Certifications: UL9540A, IEC61629, UN38.3, FCC, EMC, EN62477-1, IEC60529; Battery Certifications: UL1973, UL9540A, IEC61629, UN38.3, GB/T36276-2018, ROHS, MSDS.

Model	TESS-100-233-Y	TESS-120-233-Y	TESS-240-233-Y
AC (Grid tied)			
Apparent Power	110kVA	125kVA	240kVA
Rated Power	100kW	116.5kW	233kW
Rated Voltage	400V		
Rated Current	144A	168A	336A
Voltage Range	360V ~ 440V		
Frequency	50/60Hz		
THDI	<math>< 3\%</math>		
Power Factor	- 0.9 leading ~ 0.9 lagging		
Wire Connection	3 / N / PE		
AC input	110kVA	125kVA	240kVA
AC (Off-grid)			
Apparent Power	110kVA	125kVA	240kVA
Rated Power	100kW	116.5kW	233kW
Rated Voltage	400V		
Rated Current	144A	168A	336A
THDU	$\leq 2\%$		
Frequency	50/60Hz		
Overload Capability	110% for long-term; 120% for 1min		
DC (Battery and PV)			
Max. PV Open-circuit Voltage	1000V DC		
Rated PV Power	100kWp		
Max. PV Power	1.1~1.4 times rated		
PV Voltage Range	400V ~ 700V DC		
Max. PV Current	100A×2		



Model	TESS-100-233-Y	TESS-120-233-Y	TESS-240-233-Y
Basic Parameters			
On/off grid switch function	Assorting		
On/off grid switch time	≤10ms		
Noise	<70dB@25°C		
IP Level	IP54 (Battery IP67)		
Fire Protection	Aerosol + C6F12O (Optional) fire extinguisher		
Operating Temperature	-30°C ~ +60°C (>45°C derating)		
Protection Function	Over /under voltage, Over current, Over/low temperature, SOC too high/low Low insulation impedance, Short circuit protection, etc		
Cooling	Air Cooling + Liquid Cooling		
Relative Humidity	0 ~ 95%, without condensation		
Max. Efficiency	4000m (>2000m derating)		
Dimensions (W×D×H)	1000×1400×2350mm	1300×1300×2300mm	
Weight	2500kg		
Communication			
HMI	Touch Screen		
Communication	RS485 / LAN		



Product Dimensions

