

Eos
C&I BESS

- TESS-30-100
- TESS-50-100
- TESS-100-215



Product Overview

In the Eos commercial 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. Eos 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.

- Integrated structure design with high protection level, to meet the installation and use in different environments.
- The design with independent battery and electrical spaces, to enhance fire safety and reliability of the system.
- Built-in local/remote EMS control logic, to meet the operation strategy customization of local operation and remote scheduling.
- Professional multi-platform access, to provide multi-dimensional after-sales and operation & maintenance services.
- 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(VDE V 0124-100):2020-06, EN 50549-1: 2019;
Module Certifications: GB/T36276-2018, IEC61629, UN38.3, EMC;
Battery Certifications: UL1973, UL9540A, IEC61629, UN38.3, GB/T36276-2018, ROHS, MSDS.



Medel	TESS-30-100	TESS-50-100	TESS-100-215
AC (Grid tied)			
Apparent Power	33kVA	55kVA	110kVA
Rated Power	30kW	50kW	100kW
Rated Voltage	400V		
Rated Current	43A	72A	144A
Voltage Range	360V ~ 440V		
Frequency	50/60Hz		
THDI	<3%		
Power Factor	- 0.9 leading ~ 0.9 lagging		
Wire Connection	3 / N / PE		
AC input	33kVA	55kVA	110kVA
AC (Off-grid)			
Apparent Power	33kVA	55kVA	110kVA
Rated Power	30kW	50kW	100kW
Rated Voltage	400V		
Rated Current	43A	72A	144A
THDU	≤2%		
Frequency	50/60Hz		
Overload Capability	110% for long-term; 120% for 1min		
DC (Battery and PV)(PV-Optional)			
Max. PV Open-circuit Voltage	1000V DC		
Rated PV Power	30kWp	50kWp	100kWp
Max. PV Power	1.1~1.4 times rated		
PV Voltage Range	400 ~ 750V DC	400 ~ 750V DC	400 ~ 650V DC
Max. PV Current	60A	60A×2	100A×2
PV MPPT NO.	1	2	2
Battery Voltage Range	313V ~ 403V	313V ~ 403V	672V ~ 884V
Available Battery Capacity	100.35kWh	100.35kWh	215.04kWh
Max. Charge Power	30kW	50kW	100kW
Max. Discharge Power	30kW	50kW	100kW
Max. Charge Current	95A	154A	148A
Max. Discharge Curretn	95A	154A	148A

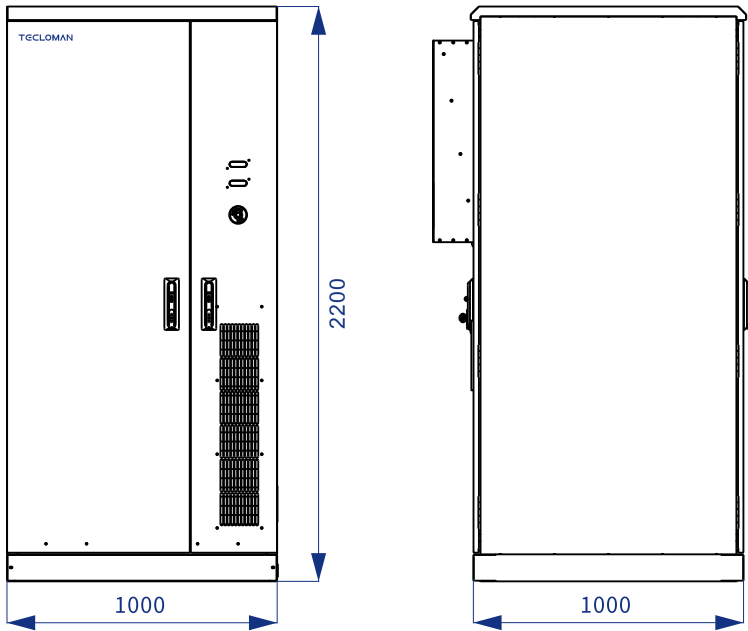
Model	TESS-30-100	TESS-50-100	TESS-100-215
Basic Parameters			
On/off grid switch function	Assorting		
On/off grid switch time	≤10ms		
Noise Level	<65dB(A)@1m		
IP protection level	IP54		
Fire protection	Aerosols		
Operating Temperature	-25°C ~ +55°C		
Protection Function	Over /under voltage, Over current, Over/low temperature, SOC too high/low Low insulation impedance, Short circuit protection, etc		
Cooling	Forced air + Smart AC		
Relative Humidity	0 ~ 95%, without condensation		
Max. Altitude	4000m (>2000m derating)		
Dimensions (W×D×H)	1000×1000×2200mm	1000×1000×2200mm	1545×1000×2350mm
Weight	1350kg	1380kg	2450kg
Communication			
HMI	Touch Screen		
Communication	RS485 / LAN		



Product Dimensions

Energy Bank TESS-30-100 / TESS-50-100:

Dimensions: 1000mm×1000mm×2200mm Weight: 1350kg/1380kg



Energy Bank TESS-100-215 / TESS-120-215:

Dimensions: 1545mm×1000mm×2350mm Weight: 2450kg

