

# Eos

## C&I BESS

TESS-30-100

TESS-50-100

TESS-100-215

TESS-120-241



### 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 cut, new energy consumption, dynamic expansion, and low voltage control 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.



New BMS control concept, to optimize BMS control method and improve DC-side output efficiency.



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.



Model	TESS-30-100	TESS-50-100	TESS-100-215	TESS-120-241
<b>AC (Grid tied)</b>				
Apparent Power	33kVA	55kVA	110kVA	132kVA
Rated Power	30kW	50kW	100kW	120kW
Rated Voltage	400V			
Rated Current	43A	72A	144A	173A
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	132kVA
<b>AC (Off-grid)</b>				
Apparent Power	33kVA	55kVA	110kVA	132kVA
Rated Power	30kW	50kW	100kW	120kW
Rated Voltage	400V			
Rated Current	43A	72A	144A	173A
THDU	≤ 2%			
Frequency	50/60Hz			
Overload Capability	110% for long-term; 120% for 1min			
<b>DC (Battery and PV)(PV-Optional)</b>				
Max. PV Open-circuit Voltage	700V DC			
Rated PV Power	30kWp	50kWp	100kWp	100kWp
Max. PV Power	1.1~1.4 times rated			
PV Voltage Range	400 ~ 700V DC			
Max. PV Current	60A	100A	100A×2	100A×2
MPPT NO.	1	1	2	2
Battery Voltage Range	324V ~ 397V	324V ~ 397V	696V ~ 852V	696V ~ 852V
Available Battery Capacity	100.35kWh	100.35kWh	215.04kWh	241.92kWh
Max. Charge Power	30kW	50kW	100kW	120kW
Max. Discharge Power	30kW	50kW	100kW	120kW
Max. Charge Current	92A	154A	143A	172A
Max. Discharge Current	92A	154A	143A	172A

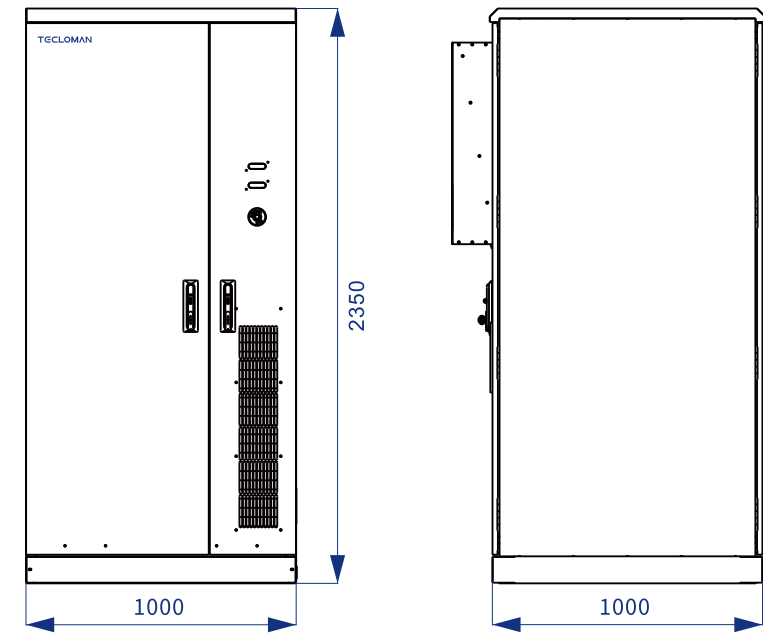
Model	TESS-30-100	TESS-50-100	TESS-100-215	TESS-120-241
<b>Basic Parameters</b>				
On/off grid switch function	Assorting			
On/off grid switch time	≤10ms			
Noise Level	<65dB(A)@1m			
IP protection level	IP54			
Fire protection	Aerosols			
Operating Temperature	-25°C ~ +55°C			
Protection Function	Over /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)	1000×1000×2350mm	1000×1000×2350mm	1545×1000×2350mm	1545×1000×2350mm
Weight	1350kg	1380kg	2450kg	2450kg
<b>Communication</b>				
Display	Touch Screen			
Communication	RS485 / LAN			



## Product Dimensions

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

Dimensions: 1000mm × 1000mm × 2350mm    Weight: 1350kg/1380kg



### Energy Bank TESS-100-215 / TESS-120-241:

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

