

Turtle M Series



289 / 723 kWh Mobile Energy Storage System

The Turtle 289kWh, 723kWh mobile energy storage systems consist of an energy storage system and a light truck. With systematic safety design, intelligent management, and operation & maintenance, they ensure temperature balance, high efficiency, and long lifespan of the energy storage battery system.

Mounted on a truck, they enable seamless mobility for on-demand power supply, providing safe, efficient, and convenient electricity services for various outdoor activities.



Product Composition

◆ Battery Compartment

The battery compartment contains one battery cluster (289kWh) or three battery clusters (723kWh), along with PCS, isolation transformer, distribution cabinet, energy management system, thermal management system, fire protection system, and more.

◆ Battery Cluster

289kWh system: A single cluster configuration with 6 battery modules, 1 high-voltage control box, and 2 PCS units connected in series.

723kWh system: Three series-configured clusters, each with 5 battery modules, 1 high-voltage control box, and 1 PCS unit.

◆ Energy Storage Battery Module

The energy storage battery module consists of 48 lithium iron phosphate (LFP) cells (314Ah each) in a 1P48S configuration, delivering high energy density, extended cycle life, high charge/discharge efficiency, and superior safety performance.

High Performance

The system features high-power discharge capability with a cycle efficiency of over 89%, ensuring long-term, safe, and stable operation.

Long Lifespan

The battery has a long lifecycle with high efficiency, exceeding 8,000 charge-discharge cycles and a service life of up to 15 years.

High Safety

The energy storage battery system has an IP67 protection rating and is equipped with a comprehensive liquid cooling and intelligent fire protection system, maintaining optimal cell temperature while providing rapid fire suppression capabilities.

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Product Parameters

Category	Item	289kWh	723kWh
Battery Parameters	Configuration	1P288S	3P240S
	Nominal Energy	289kWh	723kWh
	Nominal Voltage	921.6V	768V
	Voltage Range	720V~1000V	600V~876V
System Parameters (0.5P)	Rated Grid Voltage	400V	
	Rated Charging Power	144.5kW	361.5kW
	Max. Charging Power	270kW @25°C, SOC<80%, 30S	405kW
	Rated Discharging Power	144.5kW	361.5kW
	Max. Discharging Power	270kW @25°C, SOC>20%, 30S	405kW
	Rated Grid Power	50Hz/60Hz	
	Temperature Range	-30~45°C	
	Maximum Operating Altitude	≤4500m (Derating If Greater than 2000m)	
	Humidity Range	≤95%RH	
Basic Parameters	Container Size (L*W*H)	4050×1900×1825mm	4900×2380×2400mm
	Product Size (L*W*H)	7036×2550×2825mm	9000×2550×3600mm
	Weight	≈ 5.5t	≈ 11.5t
	Protection Level	IP54	
	Cooling Method	Intelligent Liquid Cooling	

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