500kW/1075kWh **Integrated Energy Storage System**



- Modular design for flexible capacity expansion up to 1075kWh
- Up to 500kW of direct-drive photovoltaics for efficient utilization
- Intelligent temperature control ensures stable operation in extreme environments
- One-stop integration simplifies installation and maintenance







Diverse Functions

It supports peak shaving and valley filling, demand-side response, backup power supply, and other major functions; it enables remote updates of operational strategies and firmware upgrades, resulting in lower operation and maintenance costs

High Integration

High Integration: The system is productized, integrating energy storage batteries, PCS (Power Conversion System), power distribution, temperature control, fire protection, water immersion door sensors, and monitoring communication, providing comprehensive controlover the system's operational status and risks. One-stop delivery shortens the on-site installation and commissioning period of the project



Flexible and Convenient

Flexible and Convenient: Modular PCS allows for linear expansion of battery units and bidirectional energy storage inverter units; it possesses independent charging and discharging control capabilities for multiple battery packs, enhancing battery utilization and safety



Safe and Intelligent

A fault escalation handling mechanism responds to preset fault scenarios. Customized BMS (Battery Management System) provides comprehensive measurement and protection functions. It supports cloud-based dispatching and operational report analysis.

Integrated Energy Storage System

cifications	
Model	
Battery parameters	
Battery rated capacity	
Battery voltage range	
Battery pack series and parallel connection	
Maximum charge/discharge current	
Adaptive battery	
Cell Capacity	
PV parameters	
Maximum PV input voltage	
PV Input power	
AC-side parameters (Off-grid)	
Rated AC voltage	
Rated AC frequency	
THDU	
Overload capacity	
General parameters	
Degree of protection	
Protective Class	
Isolation mode	
Shutdown self-discharge	
Display	
Relative humidity	
Noise	
Ambient temperature	
Cooling mode	
Altitude	
Communication interface	
Dimensions (W*D*H)	
Weight (approx.)	

ZECO-ESS1075(500kW/1075kWh)

215kWh*5

672~864V

1P*20S*12S

140A

LFP

280Ah

Battery minimum voltage -50V

500kW

500kW

50/60Hz (±5Hz)

<3% (Linear Load)

110%, normal operation; 120%, 1 minute

IP20 (Indoor)

Transformer isolation

<100W (Without transformer)

LCD

0 ~ 95% (no condensation)

<78dB

-25°C to +60°C(derating above 45°C)

Intelligent air-cooled

2000m (> 2000m reduction)

Rs485 / CAN

1200*1000*2300mm(Energy Storage Converter) 1200*800*2100mm(PV Converter) 12192*2438*2896mm(Container)

~17.5t