

# EnerCube-125KW241KWh ENERGY STORAGE SYSTEM



This product is a representative of highly modularized and standardized RITAR POWER products, according to 3S(Safe/Strong/Smart) energy storage concept and Car specification level quality requirements; power shifting, combined new energy power generation, dynamic capacity-increasing and demand management, distributed generation, emergency power backup, and other functions, also supports the electric vehicle fast charging demand.

Using the design concept of "All in One", the longevity cell, battery management system BMS, high-performance transformer system PCS, active safety system and thermal management system are integrated into a single standardized outdoor cabinet to form an integrated plug and play intelligent energy block.

## HIGH SAFETY

- Select high quality LFP cell dedicated for energy storage, cycle life of more than 8000 times.
- IP55 Protection rating to meet the requirements of outdoor applications.
- Cabinet partition security isolation + pack-level security warning and fire prevention to ensure the system safety and control.

## LONG LIFE

- The air conditioner air-cools is adopted to maintain each cell of the battery Pack at the appropriate temperature to ensure battery performance and cycle life.
- Efficient equalization BMS: single series design + efficient equalization technology, the system parallel capacity loss is 0.

## HIGH INTEGRATION

- Standardized design for lower O&M costs, standardized production for fast delivery, and lower overall lifecycle costs.
- Infinite parallel connection can realize elastic expansion and fully modular maintenance of the energy storage power station. Supporting multi-scene applications from kWh to MWh level.

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## ■ SPECIFICATION

Model	EnerCube-100KW241KWh
<b>DC battery parameters</b>	
Types of batteries	LFP 314Ah
Battery Pack Configuration	16.077KWh/1P16S
Battery System Configuration	241KWh/1P240S
Battery voltage range	672~864V
Number of temperature measurements	90
<b>AC Parameters</b>	
AC rated power	100KW
AC maximum power	110KW
AC current distortion rate	< 3%
DC component	< 0.5%I <sub>pn</sub>
Grid voltage range	380/400V ± 15%
Power factor	-1~+1
Rated grid frequency	50Hz/60Hz
<b>System parameters</b>	
Maximum system efficiency	≥91%
Charge/discharge ratio	≤0.5C
The depth of discharge	100%DOD
Cycles	> 8000
Communication interface	CAN/RS485/LAN
Protection grade	IP55
Type of cooling	Air conditioning air cooling
Operating temperature	-35°C~+55°C
Relative humidity	5~95%RH, No condensation
Noise	< 70dB
Altitude	< 2000m
Size(L*D*H)	1200*1100*22800mm+1000*920*330mm
Fire fighting system	Aerosol + Pack-level immersion + Active warning
Weight	2600kg

## ■ System Topology

