

# 100KW200KWh Modular Energy Storage



This product is the representative modular and standardized product of RITARPOWER. It is designed with 3S(Safe/Strong/Smart) energy storage concept to meet the safety and quality requirements of the vehicle specification level. This product can meet various needs of users, such as peak cutting and valley filling, new energy power generation, dynamic capacity increase, demand management, power quality management, distributed power generation, emergency backup and other functions, and can effectively support the demand for rapid charging of electric vehicles.

Using an "All in One" design concept, the product integrates long-life batteries, battery management system(BMS), high-performance variable current system(PCS), active safety system and thermal management system into a standardized outdoor cabinet, forming an integrated plug-and-play intelligent modular energy cabinet product.

## HIGH SAFETY

Using high quality LFP special energy storage cell, cycle life of more than 8000 times.

Ip 55 protection grade 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 precise temperature control of industrial air conditioning ensures that each cell always works in the appropriate temperature range, ensuring battery performance and cycle life.

Efficient equalization BMS: single series design+efficient equalization technology, the system parallel capacity loss of the system is 0.

## HIGH INTEGRATION

Standardized design for lower O&M costs, standardized production for fast delivery, and lower overall life cycle 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.

# 100KW200KWh

## Specification

Model	EnerCube-100KW200KWh
DC battery parameters	
Types of batteries	LFP280Ah
Battery Pack Configuration	14.336KWh/1P16S
Battery System Configuration	200KWh/1P224S
Battery voltage range	627~806V
Number of temperature measurements	84
AC Parameters	
AC rated power	100KW
AC maximum power	110KW
AC current distortion rate	< 3%
DC component	< 0.5%Ipn
Grid voltage range	380/400 (-15%~15%) Vac
Power factor	-1~+1
Rated grid frequency	50Hz/60Hz
System parameters	
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	1200(L)*2350(H)*1100(D)mm
Fire protection system	Aerosol+Pack-level immersion+Active warning
Weight	2600kg

### ■ System Topology

