

#### **Solution Overview**

This solution is a integrated AC/DC containerized energy storage system developed by Jiangsu Koyoe Energy Technology Co., Ltd. As a backup power supply project, it supports both grid-connected and off-grid operation. The system features two parallel AC/DC integrated energy storage containers with a total input/output capacity of 2500kW and a storage capacity of 5225kWh. Each container delivers 1250kW of input/output power and 2612.48kWh of storage capacity, supporting both grid-connected and off-grid charging/discharging capabilities. The product adopts a non-enclosed dual-temperature control system (liquid cooling + intelligent air cooling), ensuring high system integration to meet long-term operational safety requirements. The integrated AC/DC design enhances overall stability while simplifying construction and installation. The system can be directly connected to grid points or voltage boost systems, effectively reducing overall project costs.

**Main Equipment** 

2x20' High Cube 2612.48kWh AC/DC integrated containers (parallel configuration)



#### **Customer Value**

- 1. Configure efficient backup power supply, dynamically adjust peak shaving and valley filling, build a solid power supply guarantee network, and achieve the dual goals of cost reduction and efficiency improvement.
- 2. Explore the arbitrage model of peak-valley price differences in power and tap the economic value of energy storage.
- 3. Promote the capacity expansion and upgrading of the power grid, promote new energy charging facilities, and solve the charging problem.



### Solution Features

Precise peak shaving and valley filling, significantly reducing electricity costs.
 Equipped with uninterruptible power supplies to ensure stable power supply.
 Intelligent real-time dispatching, enjoy a convenient and smart life. 4. Expand diverse energy storage applications to cover all scenarios of power consumption



# **Koyoe Advantages**

- 1. Independently developed high-performance lithium iron phosphate battery packs, which are safe, reliable and have a long service life.
- Relying on self-developed EMS intelligent system, the system realizes fully automated and unattended operation.
   Independently developed and produced core equipment such as BMS, PCS and EMS to ensure the coordinated and efficient operation of the system.



## **Application Scenarios**

According to different user needs, the operation mode of the energy storage system can meet various application scenarios such as grid peak regulation, auxiliary frequency modulation, backup power supply, peak and valley filling, power demand response, emergency power support, and reactive power compensation.









CS Total Power 125kW*20  State Capacity of Energy Storage System 5224.96kWh  Sominal DC Voltage 832Vdc  Sattery Voltage Range 650~936V  LFP  Perfluorohexanone,Exhaust explosion-proof system, Water spray system  Perfluorohexanone,Exhaust explosion-proof system  Perfluorohexanone,Exhaust explosion	2500kW/5225kWh AC/DC Integrated Container Energy Storage System Power System Parameters	
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Asttery Voltage Range Asttery Type  LFP  Perfluorohexanone,Exhaust explosion-proof system, Water spray system  PCS Module Parameters  PCS Model  COS DC Parameters  PAXIMUM DC Power  POS Voltage Range  POS AC Parameters  PAXIMUM DC Current  POS AC PARAMETER  PAXIMUM DC Current  POS	Total Capacity of Energy Storage System	5224.96kWh
LEP Perfluorohexanone,Exhaust explosion-proof system, Water spray system  Post Module Parameters  Post Model Post Double Parameters  Post Double Param	Nominal DC Voltage	832Vdc
Perfluorohexanone,Exhaust explosion-proof system, Water spray system  PCS Module Parameters  PCS Model  RY-PCS125KH-A  Cooling Method  Smart Air Cooling  PCS DC Parameters  Maximum DC Power  150kW  PC Voltage Range  Aximum DC Current  200A  PCS AC Parameters  Rated AC Power  Prince Phase Five Wire  PC Overload Capacity  Parameters  Ratery Box Parameters  Rated Voltage  Rated Voltage  Ratery Box Composition  1P52S  Rated Voltage	Battery Voltage Range	650 ~ 936V
Water spray system  WY-PCS125KH-A  Smart Air Cooling  ### Cooling  ### ### ### ### ### ### ### ### ### #	Battery Type	LFP
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Accident of the second of the	PCS Model	KY-PCS125KH-A
Maximum DC Power 150kW  CC Voltage Range 650V~950V  Maximum DC Current 200A  CCS AC Parameters  Rated AC Power 125kW  Wring Method Three Phase Five Wire 137kVA  Battery Box Parameters  Nominal Energy 52.2496kWh  Sattery Box Composition 1P52S  Rated Voltage 166.4V  Nominal Capacity 314Ah  Vorking Voltage 130~187.2V	Cooling Method	Smart Air Cooling
DC Voltage Range 650V~950V  Maximum DC Current 200A  PCS AC Parameters  Rated AC Power 125kW  Wring Method Three Phase Five Wire  AC Overload Capacity 137kVA  Stattery Box Parameters  Nominal Energy 52.2496kWh  Stattery Box Composition 1P52S  Rated Voltage 166.4V  Nominal Capacity 314Ah  Vorking Voltage 130 ~ 187.2V	PCS DC Parameters	
Maximum DC Current 200A  PCS AC Parameters Rated AC Power 125kW Wring Method Three Phase Five Wire 137kVA  Battery Box Parameters Rominal Energy 52.2496kWh Battery Box Composition 1P52S Rated Voltage 166.4V Rominal Capacity 314Ah  Working Voltage 130 ~ 187.2V	Maximum DC Power	150kW
Acted AC Power 125kW  Wring Method Three Phase Five Wire 137kVA  Sattery Box Parameters  Nominal Energy 52.2496kWh  Sattery Box Composition 1P52S  Satted Voltage 166.4V  Nominal Capacity 314Ah  Working Voltage 130~187.2V	DC Voltage Range	650V~950V
Rated AC Power  Viring Method  Three Phase Five Wire  AC Overload Capacity  Battery Box Parameters  Nominal Energy  Sattery Box Composition  1P52S Rated Voltage  Nominal Capacity  314Ah  Vorking Voltage  130 ~ 187.2V	Maximum DC Current	200A
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AC Overload Capacity  Battery Box Parameters  Nominal Energy  Sattery Box Composition  1P52S  Rated Voltage  Nominal Capacity  Vorking Voltage  130~187.2V	Rated AC Power	125kW
Sattery Box Parameters  Nominal Energy 52.2496kWh  Sattery Box Composition 1P52S  Sated Voltage 166.4V  Nominal Capacity 314Ah  Vorking Voltage 130~187.2V	Wiring Method	Three Phase Five Wire
Nominal Energy 52.2496kWh Sattery Box Composition 1P52S Rated Voltage 166.4V Nominal Capacity 314Ah Vorking Voltage 130~187.2V	AC Overload Capacity	137kVA
Rattery Box Composition 1P52S Rated Voltage 166.4V Nominal Capacity 314Ah Vorking Voltage 130 ~ 187.2V	Battery Box Parameters	
Rated Voltage  Nominal Capacity  Vorking Voltage  166.4V  130 ~ 187.2V	Nominal Energy	52.2496kWh
Nominal Capacity  Vorking Voltage  314Ah  130 ~ 187.2V	Battery Box Composition	1P52S
Vorking Voltage 130 ~ 187.2V	Rated Voltage	166.4V
	Nominal Capacity	314Ah
// Aaximum Operating Temperature Range Charge: 0 ~ 55℃; Discharge: -20 ~ 60℃	Working Voltage	130 ~ 187.2V
	Maximum Operating Temperature Range	Charge: 0 ~ 55°C; Discharge: -20 ~ 60°C