KOYOE

1250kW/2612.48kWh AC/DC Integrated Container Energy Storage System



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 one parallel AC/DC integrated energy storage containers with a total input/output capacity of 1250kw 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 (liguid 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

1X 20' 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

1. Precise peak shaving and valley filling, significantly reducing electricity costs.
2. Equipped with uninterruptible power supplies to ensure stable power supply.
3. 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.
2. Relying on self-developed EMS intelligent system, the system realizes fully automated and unattended operation.
3. Independently developed and produced core equipment such as BMS, PCS and EMS to ensure the coordinated and efficient operation of the system.

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*Specifications are subject to the actual nameplate of the product

Model	1250kW-2612.48kWh
AC Data	
Nominal Output Power[kW]	1250
Max. Apparent Output Power[kVA]	1375
Max Input Power[kW]	1375
Nominal Output Voltage[Vac]	400V,3L/N/PE
Nominal Output Frequency[HZ]	50/60
Max. Output Current[A]	2000
Max. Three-phase Unbalanced Output Current[A]	2000
Power Factor	~1(0.8 Lead to 0.8 lag can be set)
Total Harmonic Distortion[%]	<3 (Fully Loaded)
Efficiency	
Efficiency of System[%]	88 (0.5C Charge & Discharge @25±2℃)
Battery Data	
Battery Type	LFP
Nominal Voltage[V]	832
Working Voltage Range[V]	728~949
Battery Model	KY-166V314AH
Cycle	Cell≥8000cycles，25±2℃，0.5C，90%DOD，70%EOL
Number of Battery Clusters	10
Battery Cluster Data	
Max. Charge / Discharge Power[kW]	125
Rated Charge / Discharge Current[A]	157/157
Number of Batteries	5
Single Battery Capacity[kWh]	52
Nominal Capacity[kWh]	261
90%DODAvailable Capacity[kWh]	235
Max Operating Temp. Range of Battery String	Charge：0~55℃；Discharge：-20~60℃
Temperature Control System	
Temperature Control System	Liquid Cooling Unit + Air Conditioner
Fire Fighting System	
Active	Detector+Aerosol+Water Fire Protection
Passive	Aerosol
Explosion-proof	Fire Exhaust Ventilation
General Data	
Operating Temperature Range[℃]	-20~50 (>45 derating)
Operating Altitude[m]	<2000
Ingress Protection Rating	IP54
Relative Humidity[%]	0~95，No Condensation
Maximum Noise Index[dB]	<70
Communication Interface	Ethernet
Communication Protocol	Modbus TCP
Dimension(W*D*H)[mm]	6058*2432*2895
Handling Mode	Lifting
Certification	
Safety Standards	IEC 62619，IEC63056，IEC 62477-1，EU 2023/1542
EMC Standards	EN 61000-6-2&4
On-grid Standard	VDE-AR-N 4105/11.18，VDE-AR-N 4110：2003，VDE-AR-N 4120：2018，

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