JDENERGY



200.384MW/801.536MWh ESS

Galaxy-2 Technical Proposal

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01

JD Energy Introduction

PART ONE

JDEnergy

Based on Xi'an Jiaotong University, Xi'an JD Energy Co., Ltd. was co-founded by renowned technologists in power electronics and a group of senior engineers with doctoral or master degrees over ten years of development experience in 2018. It is committed to the technical research and product development of core equipment in advanced energy storage systems, contributing industry-leading solutions to promote access to large-scale clean energy and achieve global carbon neutrality goals.

JD Energy, with the mission of “reliable clean power for everyone,” aims to “drive the large-scale application of energy storage by innovating power electronics and IoT technology, making energy cleaner and more user-friendly”. Taking advantage of high-efficiency energy storage and conversion technology, IoT, and big data research, it has promoted the transformation of the global energy mix, increased the proportion of clean energy, and brought unfailing light and power to electricity-short regions. That's how it improves the living environment of humanity with stable and user-friendly clean electricity.

Mission

Reliable clean power for everyone

Vision

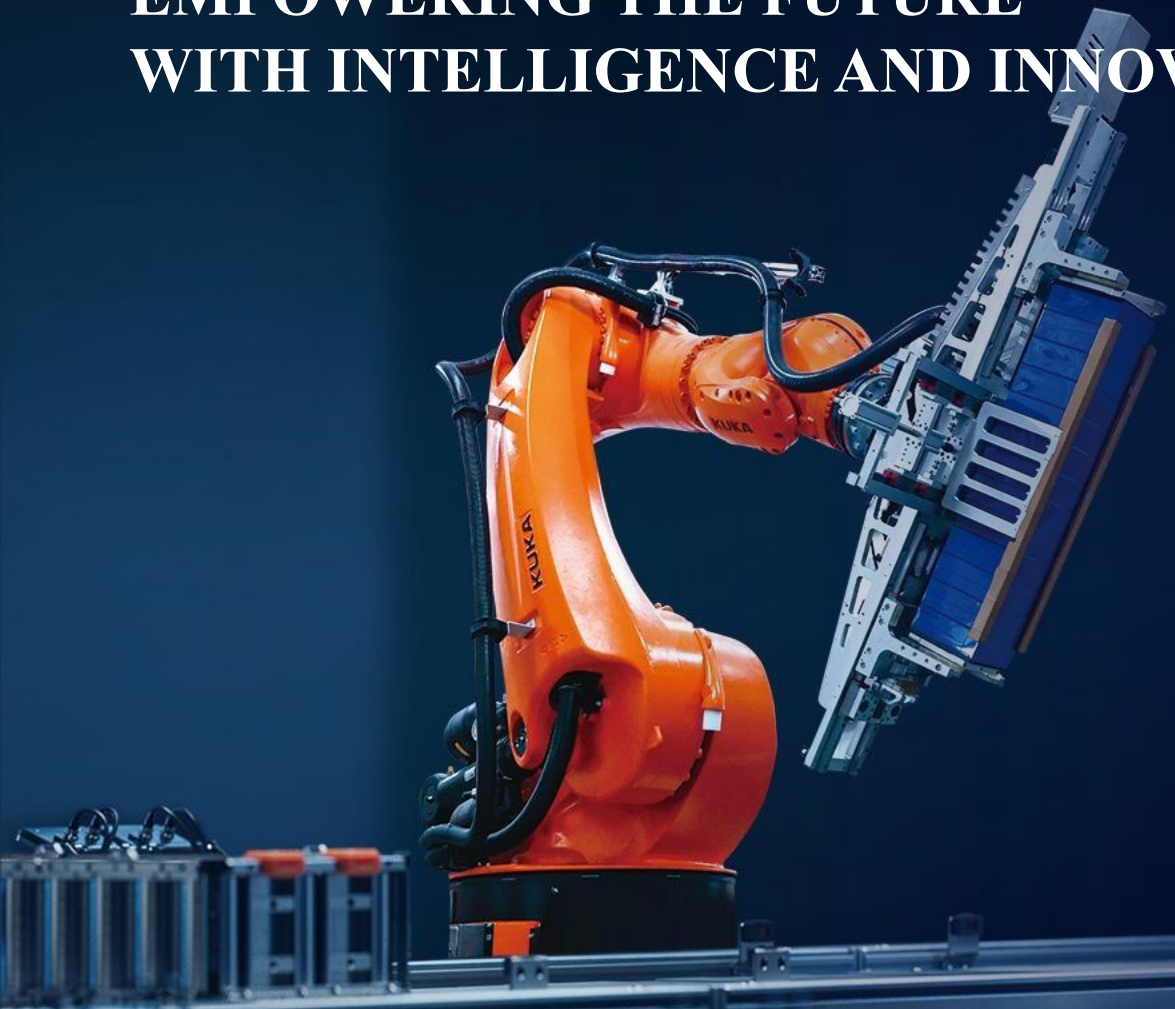
Being a 100-grade GWh Energy Storage Provider

Values

Focus, Improve, Open, Contribute



EMPOWERING THE FUTURE WITH INTELLIGENCE AND INNOVATION



8GWh
Cumulative installed capacity

1000+
C&I application Delivered

20000+
eBlocks Delivered

155+
Industries Served

1757days
system has operated safely and reliably for over

20GWh
Manufacturing Capacity

* Statistics updated as of June 2025.

C&I ENERGY STORAGE LEADER



1 Tier

BloombergNEF Tier1 Global Energy Storage Manufacturer

1 TOP

China's **No.1** energy storage system integrators in terms of shipment volume on user-side **in 2024**

1 TOP

China's No.1 energy storage system integrators in terms of shipment volume on user-side **in 2023**





02 Customer Requirements

PART TWO

Customer Requirements Collection List

Item	Units	Value	Remark
Require Power	MW	200.384	Nameplate power
Required Capacity	MWh	801.536	Nameplate capacity
Operating Profile	cycle/day	1 ~ 2	330 ~ 660 cycles/year
Operating Life	year	10	
Project Location		greece	
Ambient Temperature	℃	/	
Earthquake Requirement		/	
Application scenario		xx	
COD	/	/	



03

Technical Proposal

PART THREE

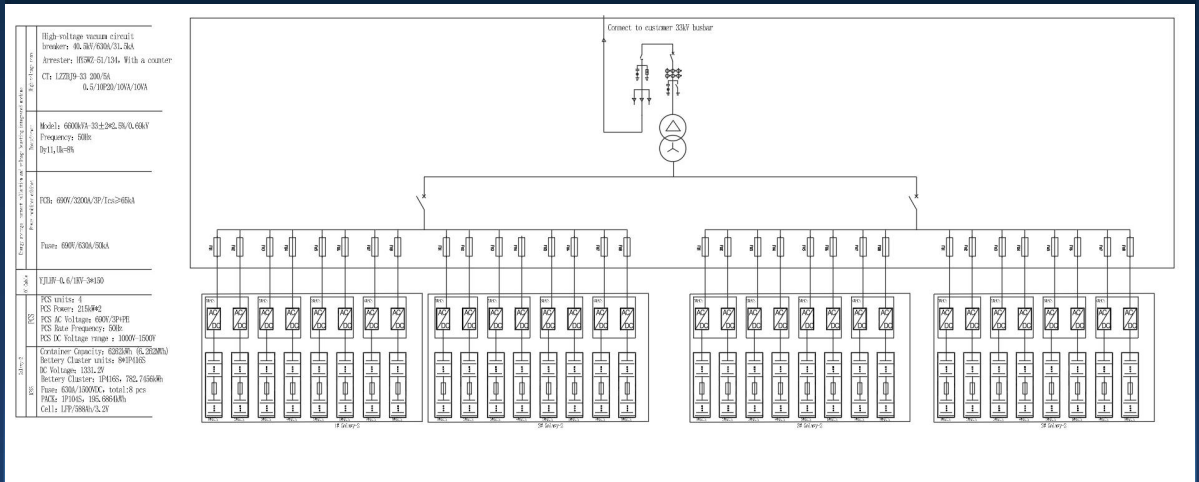
Energy Storage Equipment List

This project is configured with a 200.384MW/801.536MWh energy storage system, deployed using standardized distributed smart energy container equipment. Below is the preliminary configuration list for this project using the AC 690V product:

No.	Name	Specification	Unit	Qty	Remarks
1	Galaxy	Galaxy-2	Unit	128	Includes battery, BMS, PCS, environmental control system, power distribution system, liquid cooling thermal management system, etc.
3	Transformer	6600kVA-33/0.69kV	set	32	Owners buy from local manufacturers or provided by JDEenergy (Optional)
3	eMind	eMind	Set	1	Cloud data storage and analysis, provides Web access URL and mobile App monitoring.

The above energy storage equipment list is for preliminary reference only. Actual implementation may differ from the above, subject to the technical agreement signed by both parties.

Energy Storage Electrical Connection Scheme



Electrical system diagram

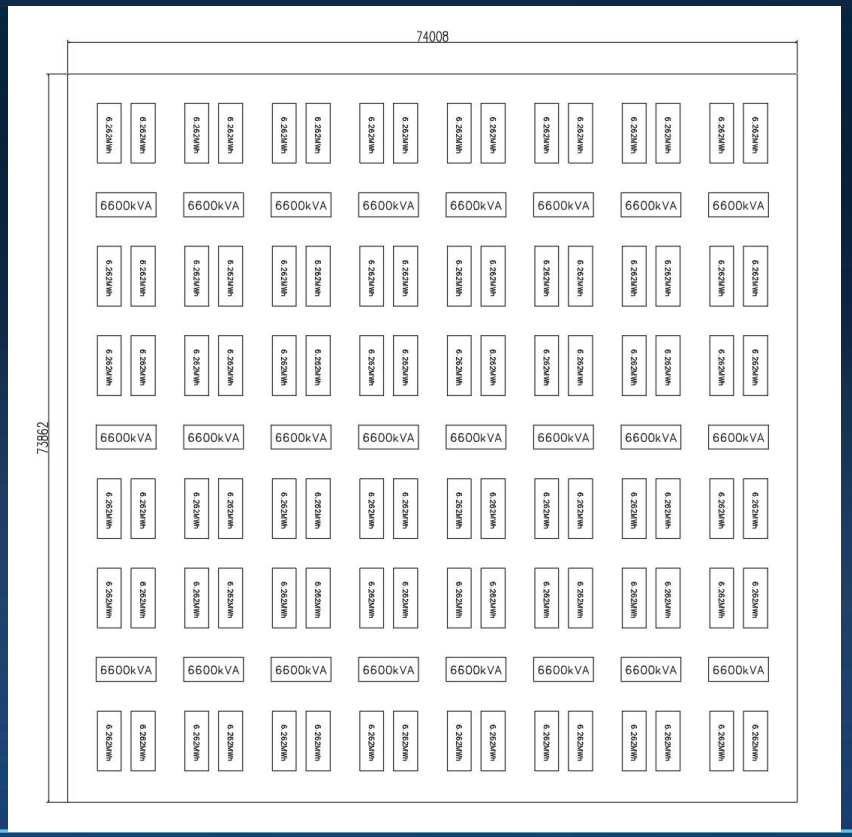
801.536 MWh

DC capacity

This project Total consists of 128 Galaxy-2 unit with 32 array, each array connects to a transformer at 690V.

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Energy Storage Configuration and Layout Diagram



Layout Diagram

5451.6 m^2

Project Configuration:

The total length of the energy storage system is 73.662m, the total width is 74.008m, and the area is 5451.6 m^2, including 128 set of Galaxy-2, 32 set of transformer.

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04 Product Specification

PART FOUR

Galaxy-2

Adopting an **All-in-One** design philosophy, truly turning energy storage engineering into a product

High-performance Multi-functional PCS

Adopting an All-in-One design philosophy, truly turning energy storage engineering into a product

High-efficiency Balanced BMS

Uses high-efficiency bidirectional balancing technology Eliminates series loss

Long Life Bettery Cell

Integrates high-quality, high-cycle LFP cells Cycle life >10000



Active Safety System

Partition safety isolation, fire resistance ＞ 2h

Thermal Management System

Integrating high efficiency liquid cooling system，temperature difference ≤3°C

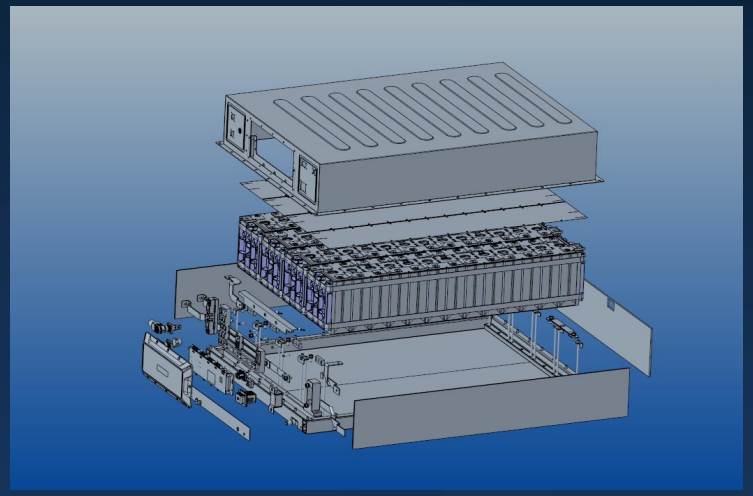
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System Overview

Battery System Configuration	6262kWh
Battery Type	LFP 3.2V / 588Ah
Battery Pack Configuration	1P416S*8
Battery Voltage Range	1164.8~1497.6V
AC Rated Power	1565kW
AC Voltage Range	690VAC(-15%~10%)
Rated Grid Frequency	50Hz / 60Hz
Power Factor	≥0.99 (at full power)
Current THD	＜3%
Cooling Method	Liquid cooling（Battery + PCS）
Fire Protection System	Thermal runaway suppression + water suppression
Protection Level	IP55(Battery)
Operating Temperature	-30 ~ 55℃
Dimensions (WDH)	6058mm*2438mm*3100mm
Weight	~48t



Cell and Module



Item	Specification
Cell capacity	588Ah
Nominal voltage	3.2V
Nominal energy	1872Wh
charge/discharge rate	0.25P
Number of cycles	10000 times

Item	Specification
Configuration	1P104S
Nominal Energy(kWh)	194.688
Operating Voltage(V)	291.2V～374.4V
charge/discharge rate	0.25P
IP Grade	IP67



05 Project Cases

PART FIVE

CASE REFERENCE Source-side



≥ 5GWh
Total Installed Capacity

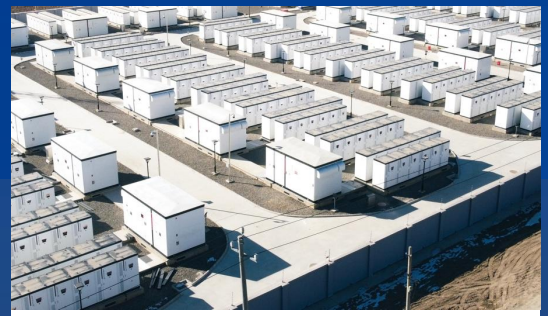
400MWh
Largest Single Project Capacity



CNNC Lin Xiang 200MW/400MWh Energy Storage Power Staion



Ningxia Huayan Substation 200MW/400MWh Energy Storage Power Station



Niushoushan 200MW/400MWh Energy Storage Power Station Project



Guangxi Guigang 144MW/ 288MWh Energy Storage Station Project



Gansu Jiuquan 450MW Energy Storage Project



Ningxia Tongli 100MW/200MWh Shared Energy Storage Project



Dongying Jinhui 100MW/200MWh Independent Shared Energy Storage Project



Chongqing Liangjiang 50 MW/ 100MWh Energy Storage Project

CASE REFERENCE C&I Project



≥ 3GWh
Total Installed Capacity

1000+
Delivered for C&I Applications

155+
Served Industry



Jinxi New Energy User-side 60MW/120MWh Energy Storage Project



Shenzhen Chiwan port 16 MW/60 MWh Energy Storage Demonstration Project



Zhejiang Jinsheng Holding Group Co., Ltd. 11MW/22MWh Energy Storage Power Station



Hungary Industrial and Commercial 6MW/12MWh Energy Storage Project



Hefei TCL Home Appliances 10MW/20MWh Energy Storage Station



Tongwei Yancheng 10MW/20MWh Energy Storage Station



Jihua Jiangdong Chemical 4.8MW/9.6MWh Energy Storage Station



Luxshare Intelligent Manufacturing (Zhejiang) 2.2MW/4.4MWh Energy Storage Station

JDENERGY 奇点能源

Reliable Clean Power for everyone



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