



# Containerized Battery Storage System (BESS)

## Product Offering 4 Hour Energy Storage Platform

NexEnergy provides modular, containerized Battery Energy Storage Systems (BESS) designed for commercial, industrial, renewable, and utility-scale deployments. Each system is delivered as a fully integrated 40-foot container that includes energy storage modules, power conversion systems, intelligent energy management, thermal management, and safety systems.



## System Specifications

Specification	Details
Container Size	40 ft Containerized System
Energy Capacity	7.5 MWh per container
Power Output	1.875 MW
Discharge Rate	0.25C
Duration	4 Hours
Architecture	Modular scalable system
Grid Compatibility	Grid-following / microgrid capable
Operating Temperature	-22°F to 140°F
Depth of Discharge	Up to 100%
Round Trip Efficiency	~99%
Cycle Life	Up to 500,000 cycles
Design Life	20+ years

### Integrated Components

- Energy Storage Modules with Battery Management System (BMS)
- Bi-directional Power Conversion System (PCS)
- Intelligent Energy Management System (EMS)
- HVAC Thermal Management · Fire Suppression System
- Electrical Protection and Distribution Systems
- Remote Monitoring and Control

### Key Applications

- Solar + Storage Integration
- Commercial & Industrial Peak Shaving
- Data Center Backup & Load Buffering
- Microgrids and Off Grid Systems
- Telecom Infrastructure
- Utility Grid Stabilization
- EV Charging Infrastructure

### Scalability

The containerized architecture allows multiple units to be deployed in parallel to scale systems from small commercial installations to utility scale energy storage deployments.

**NexEnergy is a global energy solutions provider focused on delivering scalable energy infrastructure and battery energy storage systems across North America, Latin America, GCC and Europe.**

# Product Benefits

## NexPack Containerized Energy Storage

Reliable, scalable, and maintenance-free power for any application



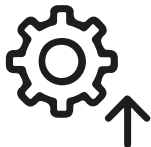
### Low Cost

- Advanced integration technology ensures optimal system performance and lower cost
- Plug and play design: >95% pre-assembled



### Safe & Reliable

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi level battery protection layers formed by discreet standalone systems offer impeccable safety



### Efficient & Flexible

- Higher efficiency and longer battery cycle life
- Modular design supports parallel connection and easy system expansion
- IP65 Rating



### Smart & Robust

- Fast state monitoring and faults recording and identification
- Integrated battery performance monitoring and logging





# Project Layout

**NEXENERGY**  
NexCap

## Container Layout

All dimensions are in mm.

40ft AC CONTAINER

8940

1500

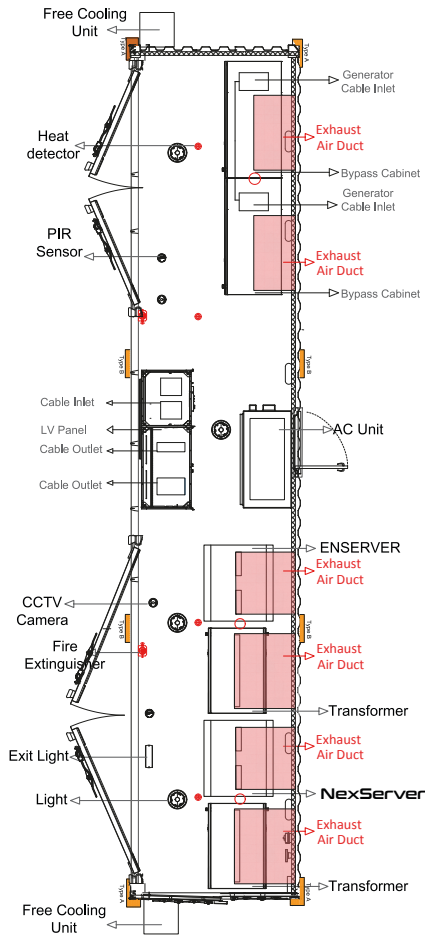
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1500

4500

2440

2000



40ft DC CONTAINER

8940

1500

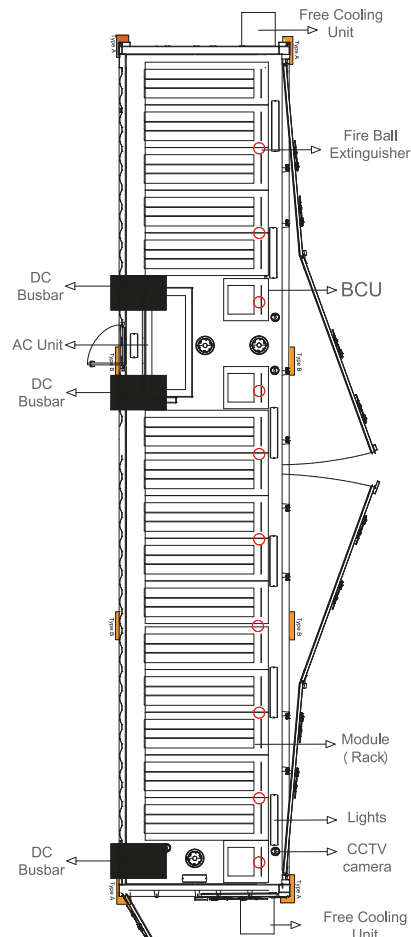
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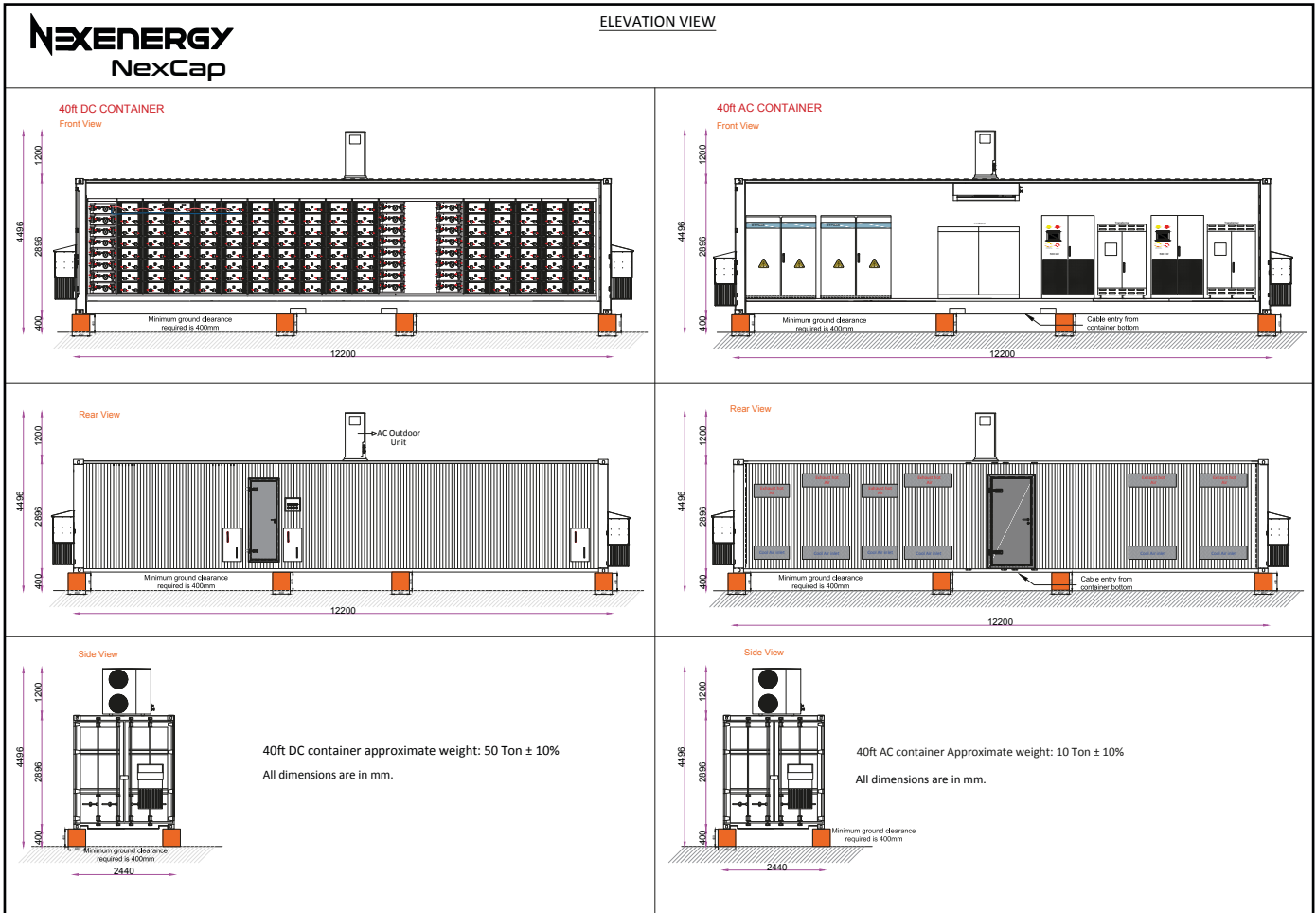
2440

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Preliminary Design

# Container Elevation View





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