



# NX Drive

## Lithium-Ion Energy Storage System (ESS)

**NX Drive™ by NEXTracker is the most flexible and reliable** energy storage system on the market today, providing best-in-class safety features for the toughest environmental conditions. Designed for utilities, developers, and energy partners, NX Drive supports multiple battery technologies and provides unprecedented configurability for a wide range of storage applications, project sizes, and future needs. Engineered to maximize energy and power density in a standardized package, NX Drive reduces balance of system (BOS) costs from design through installation and operation.

**NX Drive applies best practices for lean and robust system integration to drive safety, quality, flexibility, and efficiency while lowering BOS and operating costs.**

Now available  
in multiple sizes  
and  
configurations

20 ft

40 ft

45 ft

### Limitless Scale, Repeatable Execution

- Platform approach supports multiple battery technologies and configurations for maximum application and supply chain flexibility.
- Standardized product leverages industrywide supply chain efficiencies, scale, and volume, including Flex's global manufacturing footprint across 30 countries.
- Modular, pre-engineered design simplifies project development and enables repeatable deployment for maximum project velocity.

### Advanced Technology, Safety, and Compliance

- Purpose-built, structurally reinforced enclosure features logistics-friendly dimensions equivalent to ISO HQ container; meets Z4 UBS seismic requirements.
- Efficient internal design maximizes energy and power density.
- Patent-pending side-door openings enable easy access to all equipment from outside of the enclosure.
- DC aggregator panel supports quick battery string connectivity, protection, and isolation.
- AC panel provides auxiliary power distribution.
- Thermal management system is pre-engineered to battery manufacturers specifications for maximum performance and longevity.
- Integrated fire detection and suppression system.
- SCADA-ready monitoring provides remote status awareness of the entire battery energy storage system.
- Enables UL 9540-compliant systems and guarantees environmental requirements prescribed by battery manufacturers.

### NX Drive Specifications

Operating temperature range	-40 to 45 Celsius
SCADA interface	Modbus TCP/IP
Aux. load interface	480/380/208 Vac 3-phase available
Thermal management	Wall-mounted, industrial-rated HVAC; performance-based sizing
Fire suppression and detection	UL-listed NOVEC 12340 @ 10% concentration. Water sprinkler system available
Design standard	NEC/NFPA 70E, UL 9540
External dimensions and approximate weights	20 ft L, 8 ft W, 9 ft 6 H; weight: 94,000 lbs
	40 ft L, 8 ft W, 9 ft 6 H; weight: 137,000 lbs
	45 ft L, 8 ft W, 9 ft 6 H; weight: 157,000 lbs
Insulation	50 mm EPS panels w/ R12 value – roof, sides, and floor
Locking mechanism	HH-EA/1
Finish	250 µm fluorocarbon paint Dip galvanized finish available

### Battery System Specs for Tier 1 Supplier Technologies

	20 ft container	40 ft container	45 ft container	DC voltage
<b>Sample Size A</b>	Up to 14 racks	Up to 32 racks	Up to 34 racks	1000 Vdc
	JH3-2P: 1.8 MWh	JH3-2P: 3.9 MWh	JH3-2P: 4.2 MWh	
	JH3-3P: 2.7 MWh	JH3-3P: 5.3 MWh	JH3-3P: 5.7 MWh	
<b>Sample Size B</b>	Up to 18 racks	Up to 37 racks	Up to 44 racks	1250 Vdc

### System Architecture

#### DCA Panel:

- Fused disconnect
- Ground fault detection
- Surge suppression
- Battery string aggregation
- Power monitoring

#### Fire Detection and Suppression:

- Fire alarm panel
- Sensors
- Battery backup
- Horn
- Strobe
- Agent + storage container (NOVEC 1230)
- Discharge nozzles, piping, and signs (caution and discharge)

#### AC Panel:

- Aux. transformer
- Aux. load power distribution
- DC power supplies for battery racks
- Enclosure monitoring system
- UPS for critical loads

#### Enclosure:

- Insulated roof, floor and walls (R12.5)
- Checker plate floor
- Side doors
- Purpose built and hardened with ISO HQ dimensions

Check with our sales team for compatible battery technologies: [storagesales@nextracker.com](mailto:storagesales@nextracker.com)