



LiFeP04 - Battery Energy Storage

# iONX Core Series

## SECTORS



COMMERCIAL  
& INDUSTRIAL



RESIDENTIAL  
COMPLEX



AGRICULTURAL

## APPLICATIONS



SOLAR  
INTEGRATION



ENERGY  
ARBITRAGE



POWER  
SECURITY



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# iONX

UNLEASHING SUSTAINABLE POWER

## Modular. Intelligent. Reliable.

Air-cooled, adaptable rack-mounted storage enabling scalable, efficient energy use.

The iONX Core Series is our most versatile and scalable high-voltage solution, designed for flexible installation on modular racks. Each 16 kWh Air-cooled module features both Active and Passive balancing, ensuring efficient thermal management and long-term reliability. With capacities ranging from 129 kWh to 241 kWh per cluster and up to 16 clusters in parallel,

iONX Core delivers a future-proof energy storage solution with 12-Year/10,000 cycles product warranty with an 80% depth of discharge. It supports leading inverter brands, integrates its intelligent tiered management with leading EMS, and is built for easy installation, safe operation, and aesthetic appeal, ensuring seamless compliance with regulations and optimal uptime.



## Product features



### Intelligence

Autonomous AI battery management with predictive fault detection for safe, optimised performance.



### 3Tier Control

Three-layer management ensures precise energy flow, system stability and efficient battery operation.



### Modularity

Flexible, modular design scales effortlessly with your changing energy needs.



### 12-Year Warranty

10,000 cycle life backed by a reliable, cost-effective 12-year warranty.



### Support

Direct, comprehensive support structured for smooth implementation and long-term success.

# PRODUCT DETAILS

## Racking

Individual 8Tier racking for easy and efficient assembly.

## Slide in Battery + Earth

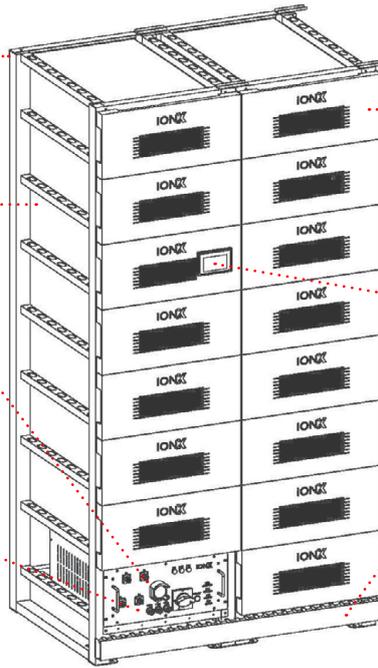
Easy slot-in battery with rack integrated earthing point.

## E-Stop

Easy access for safe system shut down from any paralleled cluster.

## DC Disconnect

Each Cluster has a DC disconnect to isolate the cluster during maintenance.



## Cover Plates

Easy clip on cover plates for cluster tidiness with blank cover options for empty rack slots.

## HV Control Screen

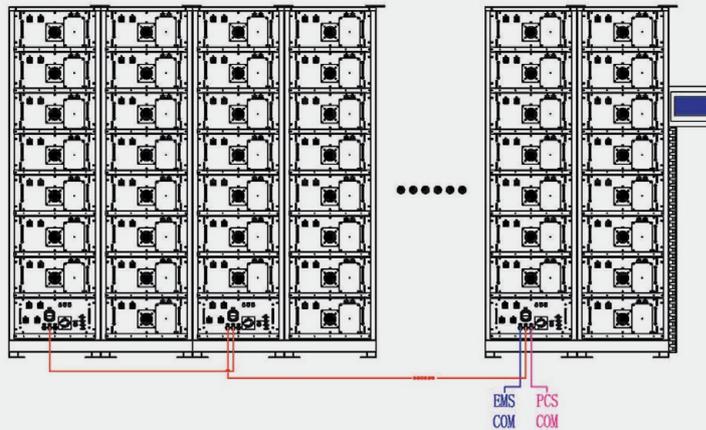
Know at an easy glance for easy cluster commissioning battery cluster status and info.

## Cable Trunking

Neat housing to ensure all cabling is concealed.

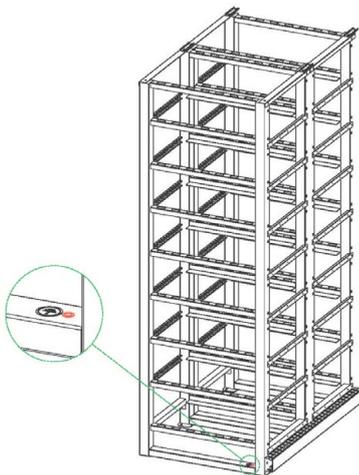
## Parallel 16 Clusters

Parallel up to 16 clusters with iONX 3Tier control to maximise plant capacity while ensuring system stability.



## 3Tier Management

A 3Tier Manager Screen is included from 5Tiers and higher – allowing for Super DATA management



## Earthing and Grounding

Each battery module and HV box is earthed directly to the rack via a simple screw fixation. Racks are interconnected and bonded to a common earthing point. Grounding contact surfaces between rack, modules, and HV unit ensure reliable continuity. A dedicated rack grounding point allows quick, safe connection to the plant's grounding system, ensuring the entire rack is earthed and preventing unearthed modules.

# BATTERY MANAGEMENT

## Software features



## Product highlights

### Cloud platform



- Real-time visualization at both **power station** and **equipment levels**
- **Centralized management** of multi-station operational indicators
- Seamless integration with **energy storage, photovoltaic, and charging equipment**, enabling unified monitoring and control
- **Flexible control strategies** configurable by time period, battery status, or load type
- Advanced **value mining, AI-based prediction, and decision analysis** powered by big data
- **Multi-operator access support** with complete data isolation for security and privacy
- **Customizable reporting**: generate daily, monthly, and annual operational and revenue reports with ease

### Mobile platform

- Real-time monitoring of key parameters of energy storage equipment
- **Early warning & alarm system** with remote fault diagnosis capabilities
- **Comprehensive reporting** on charge/discharge data and revenue statistics
- **Account permission isolation** with support for both Chinese and English interfaces
- **Remote mobile management** of energy storage equipment and energy utilization



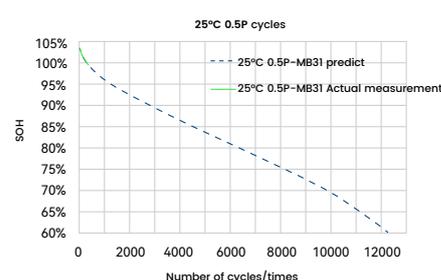
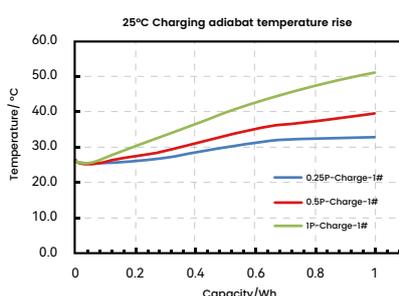
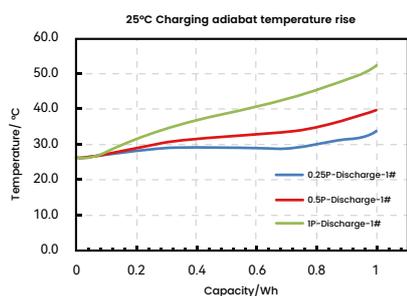
# SPECIFICATIONS

- ✘ Flexible (between 129 - 241 kWh)
- ✘ Modular up to 3.858MWh – Parallel further with multi 16 Clusters to increase project size
- ✘ Tier 1 A-Grade battery cell modules
- ✘ 10000 cycle / 12 year warranty



	CORE 129	CORE 145	CORE 161	CORE 177	CORE 193	CORE 209	CORE 225	CORE 241
<b>Cluster Information</b>								
Cluster Capacity (kWh)	129	145	161	177	193	209	225	241
No. modules	8	9	10	11	12	13	14	15
Rated kWh (80% DoD)	103	116	129	141	154	167	170	193
Nominal Voltage	409,6	460,8	512	563,2	614,4	665,6	716,8	768
Min Operating Voltage	358,4	403,2	448	492,8	537,6	582,4	627,2	672
Max Operating Voltage	467,2	525,6	584	642,4	700,8	759,2	817,6	876
<b>Dimensions</b>								
Power/m2 (kWh/m <sup>2</sup> )	139.6	157.1	174.5	192.0	209.4	228.0	244.3	261.8
Weight (kg)	1086	1203	1320	1437	1554	1671	1788	1905
Cluster Dimension ( WxHxD)	1180(mm) x 2278(mm) x 777(mm)							
<b>Operation Data</b>								
Std. Charge/Discharge	0.5C / 0.5C							
Max. Discharge	157A <sub>dc</sub>							
Operating temp	25°C + - 3°C							
Humidity	10% to 95%							
Max DoD (ave.)	80%							
Warranty/ Cycles/ EOL	10,000 cycles / 12 year - 65% EOL*							
<b>Communications</b>								
Inverter compatibility	ATESS, Megarevo, Solis, Deye							
EMS communication	As per requested, no restriction							
<b>Environment</b>								
Installation	Indoors							
Altitude	<3000m							
IP rating	IP20							
<b>Certifications</b>								
Cluster	CE, UN38.3, RoHS, IEC62619							
Cells	UL9540A, UL1973							

\* Warranty T&C's apply



**APPLICATION: BACKUP POWER – ENERGY ARBITRAGE – SELF CONSUMPTION – PEAK SHAVING**



**ionX**

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