

**Battery Energy Storage Solution** 

# **iONX POD Series**

#### **SECTORS**



COMMERCIAL & INDUSTRIAL



RESIDENTIAL COMPLEX



AGRICULTURAL

#### **APPLICATIONS**



SOLAR INTEGRATION



ENERGY ARBITRAGE



POWER SECURITY



DEMAND CLIPPING





## PRODUCT INTRODUCTION

## Prebuilt for your convenience

Air-cooled Battery energy storage container.

The iONX POD Series offers a selection of IP54 Air-cooled DC only or DC-AC containerised Battery energy storage solutions, providing a simplistic and quality controlled drop-down approach for ease of project deployment.

Offered in a 20ft container, capacities range from 1.446 MWh – 2.893 MWh. These prebuilt DC containers include ducted air-conditioning for suitable air distribution and temperature control, rockwool insulation assisting with efficient temperature management as well as fire suppression and control, a global standard fire

suppression system, internal lighting and camera system for ease of physical monitoring, as well as DC combiners to allow for effective tie-in to the projects AC conversion room.

The iONX POD+ is a Turnkey solution for single-source supply, fully customized to your project needs. The iONX POD+ combines the iONX POD series with selected PCS brands, built into either the same or separate containers, all with suitably compatible air-conditioning, insulation, lighting and tie in points.



## **Product features**





**CYCLES** 



**Air-Conditioning** 

**DUCTED & INSULATED** 



Fire

SUPPRESSION SYSTEM



AC

CONVERSION OPTION



DC

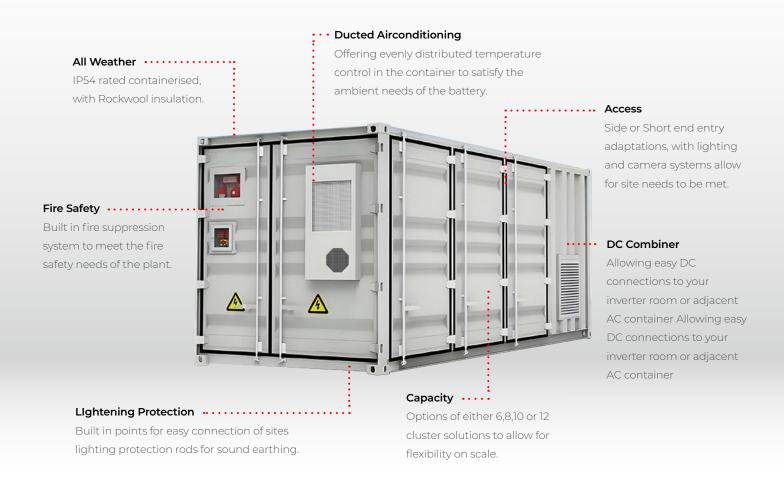
COMBINER



**Integrated** 

LIGHTING & CAMERA SYSTEM

## PRODUCT DETAILS





#### **POD Series - 20ft DC Container Solution**

- Built with iONX CORE+ 64V, 314Ah, 20kWh modules for high energy density on air-cooled 1000Vdc systems
- 241kWh per cluster, scalable from 1446kWh to 2892kWh per container
- **Voltage range:** 648V–864V (nominal 768V)
- **Side-access design** keeps operators outside the container during maintenance
- Optimized layout:
  - DC combiners positioned at the short end for easy site integration
  - Air-conditioning condensers placed opposite, with **ducted airflow** for even cooling
- Flexible connections: single inverter with one DC combiner, or multi-inverter with 2–3 DC combiners
- Customizable to application needs in a single compact container

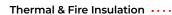
## CONTAINER & PERIPHERALS

#### UV & Environmental Protection .....

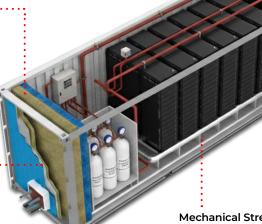
· UV shielding preserves material strength and appearance.

 $\cdot$  Long service life in high-heat, high-sunlight

conditions.



Rockwool insulation enhances fire resistance and temperature control.



Mechanical Strength & Reliability

- · Prefabricated structure meets strength standards.
- · Resistant to vibration and dynamic stress without deformation.

#### **Protective Performance**

- · C3-grade corrosion, fire, water, shock, UV, and theft protection.
- · Engineered for structural integrity in demanding environments.
- · Fully sealed base to prevent water ingress or accumulation.

#### Materials & Coatings

- · Constructed with weathering steel + Q235B steel.
- · Multi-layer coating system: zinc-rich primer, epoxy coat, and C4-grade polyurethane finish.
- · Anti-corrosion rating: C4H (CCS compliant).

### for optimal battery performance.

· Advanced thermal management

Air Conditioning System

- · Uniform temperature via gas and fluid dynamics.
- · Dual 20 kW industrial AC units for stable cooling.
- · Air duct design keeps temperature consistent across modules.

## Fire Control System (FM-200 / HFC-227ea)



The BESS fire alarm system meets the requirements of electrical safety and firefighting safety; The FSS consists of the control unit, heat sensor, smoke sensor, execution unit, stop button, sound and light alarm, etc.

#### **Key Advantages**

- · Fast-acting suppression
- · No residue, no cleanup required
- · Electrically non-conductive
- · Safe for use in normally occupied spaces
- · Ideal for LiFePO4 systems

### **Automatic Fire Alarm System**

- $\cdot$  Fire detectors
- · Gas fire extinguishing controller
- · Fire alarm siren & visual alarms
- · Emergency start/stop buttons
- · Vent indicator lights
- · System wiring.

#### **Cabinet-Type Fire Extinguishing Device**

- · Cabinet body
- · Storage cylinder set (extinguishing agent FM-200)
- · Electromagnetic actuator
- · Pressure gauges
- · High-pressure hoses
- · Signal feedback

# POD+

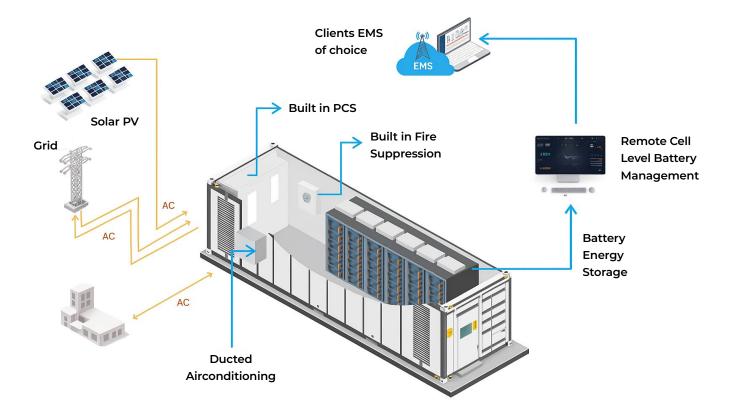
# Simple DC to AC Drop-Down

Built under stringent factory quality control, the IONX POD+ Series minimizes field assembly and handling. Its all-in-one, pre-commissioned design ensures consistent performance and rapid project execution.



- 6-cluster and 8-cluster configurations available with integrated inverters inside the 20ft container for a fully self-contained solution.
- 10-cluster and 12-cluster configurations paired with a dedicated auxiliary container housing the inverters, ensuring efficient space utilization and maintainability at larger capacities.

This modular approach allows the POD+ Series to scale seamlessly while maintaining the highest standards of safety, efficiency, and reliability.



iONX POD+ BESS delivers an integrated, all-in-one design that streamlines AC and DC connections. Its modular architecture enables fast, hassle-free deployment for energy storage systems starting from 1,446 kWh.

## 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, Al-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

	POD 6	POD 8	POD 10	POD 12
Module capacity (kwh)	20.09			
No. modules	12			
No. clusters	6	8	10	12
Total capacity	1446.48	1928.64	2410.8	2892.96
Rated kWh (80% dod)	1157	1543	1929	2314
Nominal voltage	768			
Max voltage	864			
Min voltage	648			
Std. Charge and discharge	0.5C / 0.5C			
Max constant discharge	0.7C			
Max peak discharge	1C <10min			
Working temperature	Discharge temperature: 0~60°C   Charging temperature: -20~60°C Storage temperature: -20~60°C			
Max DOD ave	80%			
Warranty/ cycles/ EOL	10,000 cycles / 12 year - 65% EOL*			
Compatibility	Atess, Megarevo, Yunt, Solis,			
EMS communication	As per request, no restriction			
Certifications	RoHS, CE, UN38.3, IEC62619			
Battery certifications	UL9540A, UL1973			
Fire certificates	CE, GB			

\* Warranty T&C's apply

#### **FIRE**

Device Name	Model	Quantity
ECP1000 extinguishing control panel	ECP1000	1
C9065T Extinguishant Hold Off Button	C9065T	1
Gas Releasing Indicator	QM-ZSD-01E	1
Addressable Photoelectric Smoke Detector	A9030T	2
Addressable Heat Fire Detector	A9020T	2
Loop-power Sounder visual indicator	A9092T	2
I/O Module	A9058T	3
Blower fan	BDFBZ-N02.8	1
Exhaust fan	ZDDB-N02.8	1
BH-60 Fixed Gas Detector WIth Display	BH60-H2	1
Digital display - point gas detector	BH60-CO	1
FM-200	YF40/2.5N/40KG	1
Water sprinkler fire protection system		1



