



## Product

# Corvus BOB (Battery on Board)

A type-approved, containerized, all-in-one battery room solution

## Plug & Play Solution

Containerized and pre-approved battery room reduces installation time, streamlines integration with ship systems, and eases the classification approvals process.

## Corvus BOB (Battery on Board)

The Corvus BOB is a standardized, plug-and-play battery room solution designed for easy integration with existing ship systems and available in 10-foot and 20-foot ISO high-cube container sizes.

The BOB container comes with batteries, a battery management system (BMS), HVAC, Thermal Runaway Exhaust, in addition to fire-fighting and detection systems. Type approved and class compliant, it's a total-package solution that significantly reduces installation time and eases the classification approvals process.

### Applications

The Corvus BOB containerized battery room provides a safe, compact, space-efficient and scalable solution for housing batteries on board a ship, either on deck or below deck. Multiple containers can be combined to create larger energy storage capacities, providing scalability based on the ship's energy requirements.



### Features

- Standalone battery room
- Plug-and-play interface
- Weathertight design
- Integrates with all power management systems
- Minimal installation time required
- DNV type approved and class compliant
- A60 class compliant fire protection
- Standard ISO footprint for ease of transport and installation

### Integrator Scope

- Installation and attachment on vessel
- Power electronics and ship system integration
- Chilled water connection
- Water mist system connection
- Clean air connection for ventilation system

## Corvus BOB & Corvus Orca ESS

The Corvus BOB houses the Corvus Orca Energy ESS, the marine battery system with the highest installation count, worldwide, and an industry leading safety profile:

- Uses passive single cell-level thermal runaway isolation
- True cell-level thermal runaway isolation
- TR does not propagate to neighbouring cells
- Isolation NOT dependant on active cooling

# Technical Specifications | Corvus BOB

Containerized, Pre-certified Battery Room

## Battery Specifications

Class Compliance	DNV, Bureau Veritas, ABS, RINA
Type Approval	DNV
Fire Suppression	Prepared for water mist
EMC	IEC 61000-4, IEC 60945-9, CISPR16-2-1

## Battery Safety Specification

Thermal Runaway Anti-Propagation	Passive cell-level thermal runaway isolation with exhaust gas system
Fire Suppression Recommended	Per SOLAS, class and Corvus recommendation
Disconnect Circuit	Hardware-based fail-safe for over-temperature and over-voltage
Short Circuit Protection	Fuses included on pack level
Emergency Stop Circuit	Hard-wired
Ground Fault Detection	Integrated

## Configuration Options

10 ft and 20 ft Corvus BOB with Corvus Orca Energy ESS



	10-ft Corvus BOB with Orca ESS	20-ft Corvus BOB with Orca ESS
Max Energy Capacity	744 kWh	1492 kWh
Max Gross Weight	15 000 kg	26 600 kg
Container Weight	5232 kg	7114 kg
Outside Height	3000 mm	3000 mm
Outside Length	2991 mm	6058 mm
Outside Width	2438 mm	2438 mm
Number of Packs	1-6	7-12
Battery Weight	9768 kg	19536 kg
Max Voltage	800 - 1100 VDC	800 - 1100 VDC
Voltage Range Step	50 VDC	50 VDC
Cooling Capacity	14 kW	18 kW
Cooling System	Chilled water fan coil	Chilled water fan coil
Fire Extinguishing	Water Mist	Water Mist