

Corvus Moray Energy

The Corvus Moray Energy is a highly advanced battery system for demanding subsea environments. The customer has a unique possibility to customize the product for the required application.

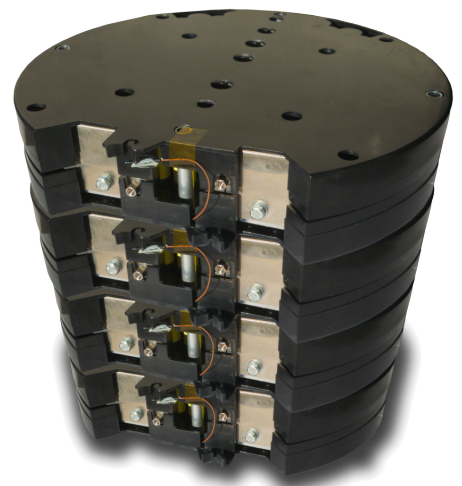
This Energy Storage System is ideal for subsea energy banks for long-term power supply with very low self discharge rated actuators.

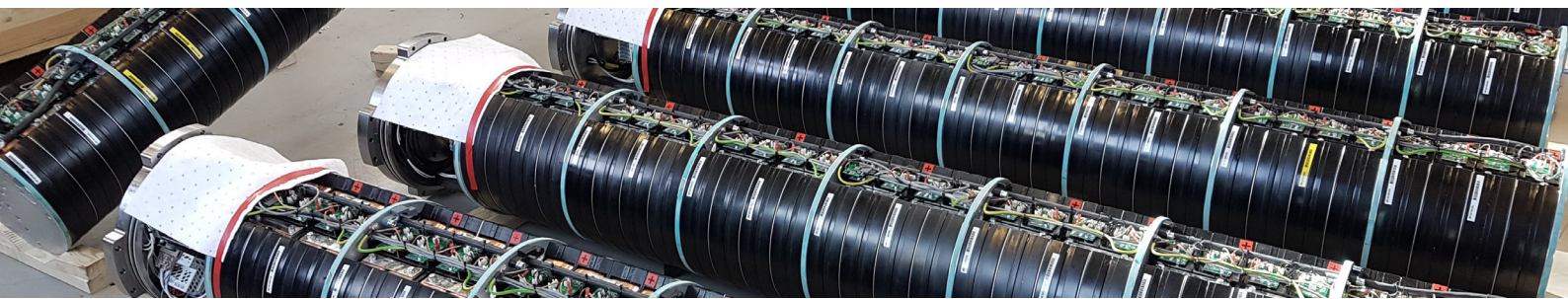
Applications

Corvus Moray Energy is ideal for subsea applications where tailor made energy storage systems are needed and high energy density combined with low discharge rates are required.

Features

- Low C-rate for slow charge and discharge
- Low weight
- Designed for voltages up to 900 VDC
- Easy and safe plug and play connections
- Low life cycle cost
- Very low self discharge for long term energy storage operations
- Very flexible and modularised design
- Passive single cell Thermal Runaway protection
- Scalable capacity and voltage according to requirements
- Industry-proven Battery Management System (BMS)
- Remote monitoring capabilities
- Enhanced EMI immunity design for maritime environments





Technical Specifications | Corvus Moray Energy

Performance Specifications

C-Rate - Peak (Discharge / Charge)	0,77C / 0,77C for 10 seconds
C-Rate - Continuous (Discharge / Charge)	0,2C / 0,2C

System Specifications

Single Module Size / Increments	1,85 kWh / 8,0 VDC
Single Pack Range	7,5-233 kWh / 32-900 VDC
Max Gravimetric Density - Pack	200 Wh/kg 5 kg/kWh
Max Volumetric Density - Pack	190 Wh/l

Example Pack - 24 Modules

Energy	45 kWh
Voltage	Max: 192 VDC Nom: 173 VDC Min: 144 VDC
Dimensions	Height: 2400 mm Diameter: 360 mm 230 kg

Safety Specifications

Thermal Runaway Anti-Propagation	Passive cell-level thermal runaway isolation
Fire Suppression	Not applicable
Disconnect Circuit	Cell individual fail-safe for over-temperature and over-voltage
Short Circuit Protection	Fuses included on cell, module and pack level
Emergency Stop Circuit	Hard-wired
Ground Fault Detection	Integrated
Disconnect Switchgear Rating	Full load

General Specifications

Class Compliance	DNV GL, Lloyds Register, Bureau Veritas, ABS, RINA
Type Approval	Not applicable
Ingress Protection	System: IP23
Cooling	Passive
Vibration and Shock	UNT38.3, DNV 2.4
EMC	IEC 60945-9