Corvus Moray Power

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

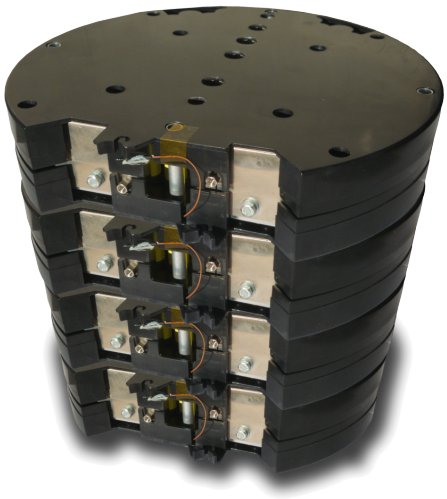
This Energy Storage System is ideal for systems performing active heave compensation, buffer stations or high power rated actuators.

Applications

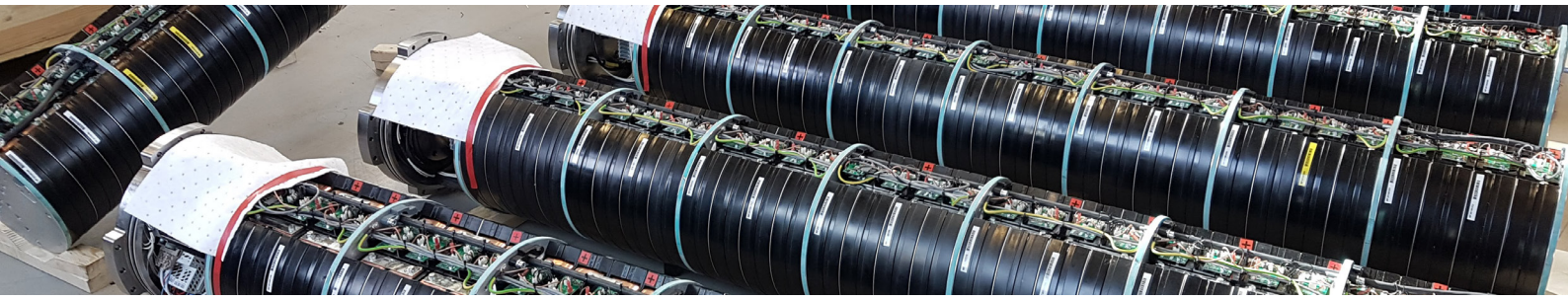
Corvus Moray Power is ideal for subsea applications where tailor made energy storage systems are needed and regeneration of energy into the battery is expected.

Features

- High C-rate, up to 2C peak
- 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



Corvus Energy



Technical Specifications | Corvus Moray Power

Performance Specifications	
C-Rate - Peak (Discharge / Charge)	1,1C / 1,1C for 10 seconds
C-Rate - Continuous (Discharge / Charge)	0,55C / 0,55C
System Specifications	
Single Module Size / Increments	1,3 kWh / 8,0 VDC
Single Pack Range	5,3-165 kWh / 32-900 VDC
Max Gravimetric Density - **Pack**	145 Wh/kg | 6,9 kg/kWh
Max Volumetric Density - **Pack**	135 Wh/l
Example Pack - 24 Modules	
Energy	32 kWh
Voltage	Max: 192 VDC I Nom: 173 VDC I Min: 144 VDC
Dimensions	Height: 2400 mm I Diameter: 360 mm I 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