Ion Power Mega
For high-end storage solutions

Our ION POWER MEGA battery module is designed for high capacity storage systems on board of yachts and professional craft. The modules are set up for 51 VDC nominal voltage and 140 Ah battery capacity.

The energy storage modules can be connected in series and parallel up to 1000 VDC resulting in a total energy capacity of several hundred kilowatt-hours. An important feature of the ION POWER MEGA is the integrated liquid cooling / heating. This ensures that the battery is always maintained at the correct temperature. This product carries an IP 65 international protection rating.

Technology Applied
The high-end Lithium Battery Module is based on the concept of small 20Ah Lithium-ion Polymer cells with a Li[NiCoMn]O2 based cathode. In comparison to conventional batteries, these cells are able to achieve the highest power per cell. By putting the several modules of 51 VDC / 140 Ah in series / parallel, high power and high DC voltage system can be configured.

Battery Management
The ION POWER MEGA modules are supplied with an integrated Battery Management System (BMS) as standard. This ensures correct cell balancing in charge and discharge mode. The BMS communicates with the WP-Master via a galvanically isolated CAN-Bus. The WP-Master acts as the safety and control box for the BMS and can handle up to 1000 VDC and 600 A.

Features and benefits
- Complete “boxed-in” integrated system
- Plug and play safe connections
- Extremely intense charge/discharge capability
- Upscaling to high capacity and high DC voltage
- Liquid cooling / heating
- High energy density
- 20% higher energy density than competitor products
- Maintenance-free

Applications
- Hybrid propulsion systems
- Large energy systems for marine and industrial applications
- Electric vehicles
- Peak shaving device for generators
- Back-up systems
- Solar energy storage

Example of use
DC Bus 664 VDC
13 x Ion Power Mega Battery string
93 kWh

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** Specifications subject to change without price notice

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