



hemeria



PROTECTION

Power conversion and energy storage solutions

High reliability and availability levels

Maintenance for several decades

Tailored solutions

HEMERIA designs and manufactures power conversion and energy storage solutions for the on-board power grid of critical systems. Our solutions are designed to meet your exact needs, for missions requiring a very high level of reliability and a strong power density.



PROTECTION



Approved by: Marine Nationale, ArianeGroup

Power converters

- Converter solutions from 1kVA to 500 kVA
- In accordance with all military and nuclear standards
- Consideration of usage constraints: thermal, acoustic, electromagnetic, size

Variable speed drives

- Variable frequency drives and actuators ranging from 1 kVA to 100 kVA
- Control logic under FPGA, DSP
- Open loop or closed loop control
- Component fault tolerance and functional redundancy
- Compatible with critical embedded environments
- Acoustic discretion

Emergency power supply

- Energy storage by supercapacitors or conventional batteries
- Storage of several tens of megajoules
- Automatic recharge
- System integrating upstream and downstream energy conversion, suitable for all types of needs
- Synchronized restart of the rotating machine during network outages
- Solution without electrochemical generators or rotating machines

Control and maintenance bench for battery systems

- Power up to 1 MW
- Customization of charge and discharge profiles, tailored to the chemistry of the battery
- Adaptation of the system to the constraints of your installation
- Remote and mobile control and monitoring system

Applications

- Defense: submarines, military vessels, weapon systems, missiles
- Space: launchers and micro-launchers, vehicles and systems for space exploration
- Nuclear: nuclear reactors, small modular reactors and advanced modular reactors
- Rail: railway infrastructures, rolling stocks and their maintenance

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