LEROY-SOMER AND KATO ENGINEERING ALTERNATORS ARE MANUFACTURED IN AN ISO 9001-2000 ENVIRONMENT.

From materials sourcing to final commissioning and maintenance, our whole organization is devoted to quality.

Our alternators conform to major international standards, including IEC 34-1, NEMA, IEEE, NFC 51-111, US 5100, VDE 0530, BS 5000, IEC 2.3, DAC and CSA.

Our marine alternators ship with certificates from all major classification societies, complying with the specifications below:

- VDE 0530, BS 5000, IEC 2.3, DAC and CSA.
- From materials sourcing to final commissioning and maintenance, our whole organization is devoted to quality.

**Notes:** This list is not exhaustive and may be revised to include other classification societies.
- **S:** specified - Whatever Class H or F, all the other specifications remain the same.
- **R:** recommended - Table is applicable to standard low voltage alternators up to 5000 kW
- ***: Alternators are proposed for secondary use. All demands for propulsion must be submitted for consultation.
- **NS:** not specified - Table is applicable to standard low voltage alternators up to 5000 kW
- ****: Alternators are proposed for secondary use. All demands for propulsion must be submitted for consultation.
- Generators intended for propulsion are subjected to case by case approval and shaft certification type 3.2 by classification societies requested.
SOLAS compliant range

Built-in Quality

Some people need to be challenged to meet expectations. Some people perceive regulations as a constraint. Not us.

We build quality alternators that are designed to withstand the test of time and extreme conditions. We source the best materials, and craft our designs around reliability and performance. The experience and know-how of our workers is our ultimate guarantee of quality.

The result? Most of our alternators meet marine specifications by design. Nothing is altered to have them comply with some of the world’s most demanding rules.

Kato Engineering and Leroy-Somer have an extensive track record demonstrating their commitment to quality and performance. Our alternators supply high-demand commercial and industrial businesses around the globe.

CLASS H INSULATION

Our alternators are CLASS H insulated, meaning we source top-quality materials from trusted suppliers to guarantee a product with superior heat-resistance.

The entire rotor-stator systems carefully selected for each alternative, using special insulating coatings to protect it against dust and wear.

The result: Longer life, better performance.

COMPACT DESIGN

Sometimes, changing a few inches is critical. This is especially true aboard vessels where space is limited and components are crammed together in strategic areas.

Our alternators are designed to provide the maximum power with the minimum footprint.

Internal vibrations are reduced through antivibration mounts for sensitive components.

ROBUST DESIGN

Around a star vibrations are the enemy of any rotating machine.

In the design phase, our engineering teams analyze the impact of vibrations through finite element modeling, and we provide 3D models of our products to help with their integration in gensets or on ships.

Internal vibrations are reduced through antivibration mounts for sensitive components.

HIGH MOTOR STARTING CAPABILITY

Reliable motor starting is a key requirement for marine alternators, to ensure bow thrusters, winches and rudders get the power they need, when they need it.

Our alternators are optimized with digital regulation features allowing Soft Start and load impact adjustments, and their electrical and mechanical design allows them to sustain 300% nominal load for 10 seconds.

Over 50 years of experience
Over 3,000 ships equipped
Certified by all of the major classification societies
Power range up to 25 MW
Worldwide on-board repair & maintenance services
SOLAS compliant range

Our products are designed and built to provide long-lasting and reliable performances.

SOMETIMES, GAINING A FEW INCHES IS CRITICAL. THIS IS ESPECIALLY TRUE ABOARD VESSELS WHERE SPACE IS LIMITED AND COMPONENTS ARE CRAMMED TOGETHER IN STRATEGIC AREAS.

Our alternators are designed to provide the maximum power with the minimum footprint.

Our patented cooling and AREP excitation technologies allow us to offer the most compact alternators on the market.

ABOARD A SHIP, VIBRATIONS ARE THE ENEMY OF ANY ROTATING MACHINE.

In the design phase, our engineering teams analyze the impact of vibrations through finite element modeling, and we provide 3D models of our products to help their integration in gensets or on ships.

Internal vibrations are reduced through antivibration mounts for sensitive components.

RELIABLE MOTOR STARTING IS A KEY REQUIREMENT FOR MARINE ALTERNATORS, TO ENSURE BOW THRUSTERS, WINCHES AND RUDDERS GET THE POWER THEY NEED, WHEN THEY NEED IT.

Our alternators are optimized with digital regulation features allowing Soft Start and load impact adjustments, and their electrical and mechanical design allows them to sustain 300% nominal load for 10 seconds.

Certified experts, trusted professionals

Our support and service teams are ISO 9001 and ISO 14001 certified, demonstrating our ongoing commitment to quality.

Our field engineers are trained to work in specific and hazardous environments, including marine, oil & gas and nuclear facilities.

They all have the qualification and experience to meet your needs.

Our worldwide network also guarantees our capability to respond quickly to any request, taking local regulations and conditions in consideration.

WE OFFER THE FOLLOWING SERVICES:

• Installation & commissioning
• Re-assembly & rewinding
• On-site inspection & repair
• Maintenance operations
• Diagnostics & optimization
• Vibration analysis

WHAT YOU GET:

• Complete & thorough testing
• Detailed intervention report
• Satisfaction & follow-up

Remanufacturing workshop

We offer a turnkey remanufacturing service including on-site removal, transport, and re-commissioning operations.

WE SERVE ALTERNATORS UP TO 35MW AND 80 TONS.

All remanufacturing is performed to precise factory specifications, including balancing and dynamic load tests.

Built to Resist

Our products are designed and built to provide long-lasting and reliable performances.

Support & Services