



THE COMPETITIVE ADVANTAGE

The recognized standard of excellence
in marine power generation

How do Northern Lights products stack up to the competition?

Northern Lights marine generator sets (5-20 kW @ 1800 RPM; 4.5 kW - 16 kW @ 1500 RPM)

NORTHERN LIGHTS	COMPETITOR
<ul style="list-style-type: none"> Common service points, including filters, fills and drains are on a single side. In addition to easy access, this permits the generator set to be installed near a wall or bulkhead, saving valuable space. 	<ul style="list-style-type: none"> Service points are often difficult to access and dictate the genset's placement in the engine room.
<ul style="list-style-type: none"> Engine provides high torque at low RPM. 	<ul style="list-style-type: none"> Typically based on higher RPM engines that have a shorter engine life.
<ul style="list-style-type: none"> Experienced engineering and high-quality components reduce belts and hoses to a minimum. 	<ul style="list-style-type: none"> Low-cost, unreliable belts and hoses used throughout, creating multiple failure points.
<ul style="list-style-type: none"> Single-piece cast iron heat exchanger, expansion tank and exhaust manifold. Resistant to corrosion and electrolysis. 	<ul style="list-style-type: none"> Marinization components are often welded together, and can fail in a marine environment. Heat exchangers use aluminum or plastic intakes.
<ul style="list-style-type: none"> Copper-nickel heat exchangers and cast iron manifolds resist corrosion and electrolysis. They empty of seawater when not in use and don't require zincs. 	<ul style="list-style-type: none"> Copper heat exchangers and aluminum exhaust manifolds are more prone to corrosion and need zinc replacement.
<ul style="list-style-type: none"> Seawater pump is gear driven (no belts) and use mechanical water seals. 	<ul style="list-style-type: none"> Pumps are often difficult to access, belt driven and have rubber lip seals, which are prone to degradation through drying and expansion.
<ul style="list-style-type: none"> Simple DC logic design is reliable, inexpensive and simple to repair. Relays are easy to replace when required 	<ul style="list-style-type: none"> Electrical system uses printed circuit boards which are more expensive and less reliable.
<ul style="list-style-type: none"> Integrated base frame and enclosure design creates a quiet, clean, compact package. Allows for double isolation mounts. High-grade stainless steel latches. 	<ul style="list-style-type: none"> Sound enclosure has less impressive vibration and sound attenuation. More latches; inferior quality.
<ul style="list-style-type: none"> Auxiliary winding for 300% short circuit protection. This protects the overall generator, and is required by many classification societies. 	<ul style="list-style-type: none"> Classification compliance through short circuit protection available as an option, not standard.
<ul style="list-style-type: none"> Equipped for the easy installation of shutdown and pre-alarm switches. 	<ul style="list-style-type: none"> Shutdown and pre-alarm switches are not readily available, and are not easily installed.

Northern Lights products are backed by a dealer network over 350 strong in more than 40 countries, with unparalleled factory support. By any measure, Northern Lights power generation systems are the world's best.

Northern Lights, Inc.

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THE BENCHMARK FOR DIESEL GENERATORS

Northern Lights defines quality in every area.

- Each generator is **designed and engineered for long life, easy installation & service, simplicity and most importantly durability**. Elegant simplicity and ultimate reliability result from engineering away complicated excess parts.
- Only the **best available materials and components** are used in order to provide long life and excellent performance with low service costs.
- **Quality is part of every manufacturing step**, from careful hand assembly to testing every engine and generator with its wiring harness and control panel.
- **Simplicity**: extra parts are engineered out; if it isn't there it can't fail. Fewer problem areas mean fewer repairs and lower costs.
- **Serviceability**: Northern Lights are engineered for low maintenance and easy service. Routine inspection and maintenance is more likely to be performed when it's easy and inexpensive.

