

**NORTHERN LIGHTS**DIESEL, ELECTRIC &  
POWER SYSTEMS**Choosing the best is  
always the right decision.**

Whether you are building a new yacht or repowering a classic—your future enjoyment depends on the generator set you choose today.

It powers the equipment you depend on for comfort and safety. It runs day and night, so smooth, quiet operation is a must. It will run many more hours than your main engines, so long life, reliability and fuel use are major considerations.

With so much depending on your new generator, it pays to choose the very best. A set built up to a standard of quality and not down to a price—a Northern Lights.

### A Commercial Heritage

Thirty years of marine experience stands behind every Lugga diesel powered Northern Lights set.

Initially designed for Alaskan fishermen, the Northern Lights reputation for rugged dependability and anvil toughness quickly spread. Yachtsmen, delighted with the smooth, quiet operation, have made them standard equipment on yachts from the world's premier builders.

Product support and service is handled by factory branches and an international dealer organization.

### Selection Without Compromise

With eleven models from 22 to 99 kW, there is a Northern Lights for every yacht. You also have a choice of operation speeds. 1200 or 1800 rpm for 60 Hz applications. 1500 rpm for vessels that need 50 Hz power.

1800 and 1500 rpm sets are popular with owners who want high output, light weight and compact size without compromising engine life or quiet sound levels.

### Q is for Quiet

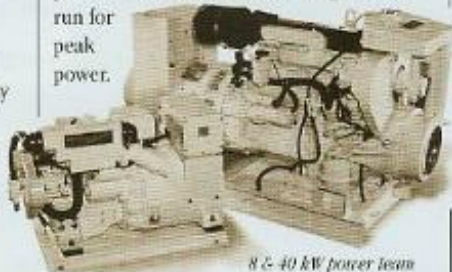
The ultimate yacht generator comes from the 1200 rpm Q-Series. These sets run 33% slower than conventional 1800 rpm sets. This dramatically reduces noise.



1200 rpm also promotes long engine life by reducing internal stresses.

### Multiple Set Power Teams

Northern Lights broad range lets you combine multiple sets aboard your vessel. Often a small Northern Lights (5 to 30 kW) is used as a night set. Or you can choose "unidentical twins"—1800 and 1200 rpm sets having the same engine, which simplifies maintenance and parts supplies. The 1800 rpm set runs during normal load periods, the 1200 set runs at night. Both run for peak power.



82-40 kW power team

### Silky Smooth Operation

Ever watch a wine glass walk across your salon table? Been kept awake by the hum coming through your stateroom wall? Northern Lights noise and vibration abatement features put an end to the irritation. Four cylinder models have twin balancing shafts. The sixes have torsional dampers and large flywheels to absorb power pulses. All have isolation mounts that keep vibration from transferring to the hull.

For maximum isolation, optional hydroelastic mounts put a fluid damper between the set and your vessel.



Custom set with compound hydroelastic mounts.

### Whisper Quiet

Four cycle Luggers are naturally quiet. A special air filter reduces air intake noise. A cast valve cover absorbs valve clatter and recycles crankcase oil vapor for a clean engine room. The fresh water cooled exhaust manifold dampens combustion noise.

Northern Lights sound shields lower sound levels even further.



Northern Lights sound shield panel gives easy service access

### Tough Lugga Diesels

**LUGGER** Built for continuous duty, Lugga powered sets have logged over 50,000 hours without a rebuild. This reliability requires the long life features from cylinder liners to liquid cooled turbos. See the complete list on page 4.

### Advanced simplicity

If it's not there, it can't break. That's why the hoses, gaskets and belts have been engineered away.

Northern Lights sets are simple to install, operate and maintain. Compact in size, they save precious space in your engine room. Engine control panels keep you in touch with your set's performance while automatic safety shutdown systems protect it from harm. Oil drains, one side service, open access and complete manuals make routine maintenance quick, clean and easy.

### Superior generator ends

Brushless Northern Lights generators require no maintenance and meet ABS and Lloyds standards. All have low temperature rise ratings and automatic voltage regulators for "clean" power.

### Custom Power System

Working with a Northern Lights application engineer, you can design a custom unit that is *more* than a generator set. With a PTO it is a power system for all your vessel's hydraulic and electrical needs.

### STARS Compatible

Sets above 50 kW can be fitted with a STARS multi-tasking emission control system that removes exhaust soot, keeps the set loaded for longer engine life and assists your muffler with sound attenuation.



### Thorough Testing

Your set and controls are load tested as a complete package. Full function testing is just one of the quality control checks that assures years of satisfaction and supports your decision to choose the very best generator set—a Northern Lights.