

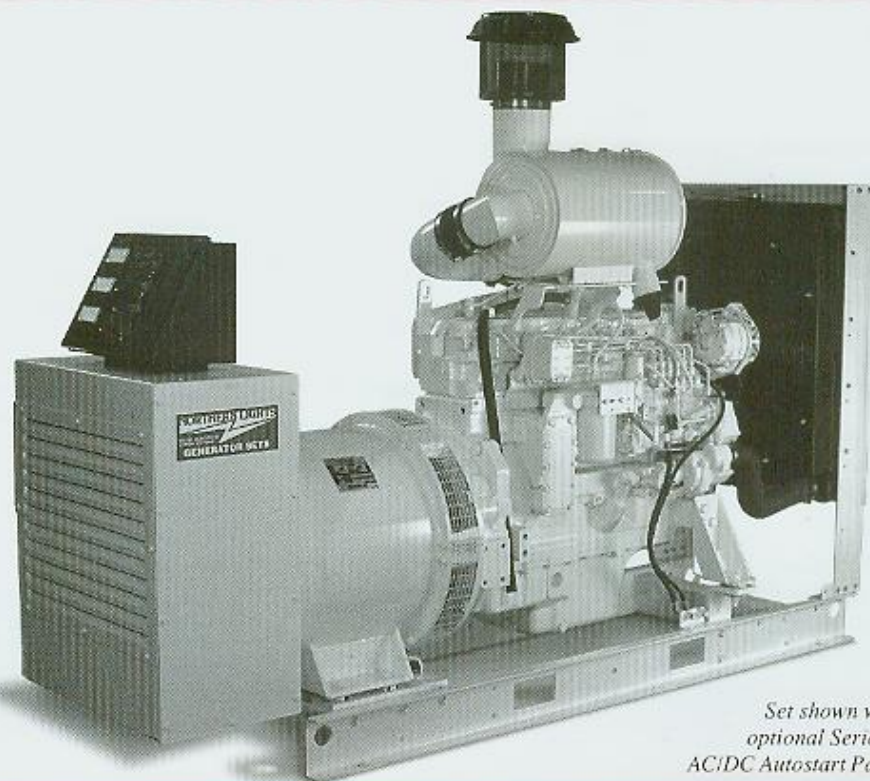
Quality Northern Lights Diesel Generator Sets

Since 1960, Alaska Diesel Electric's success is based on our obsession with innovative, application specific design, quality control and unit reliability. This has made our Northern Lights sets the recognized standard of the industry.

The NL676AB meets this high standard. It combines a high torque, low rpm industrial diesel, a conservatively rated generator end and your choice of controls. The resulting power system gives you economical prime power or reliable standby protection. A system designed to pick up 100% of the rated load with minimal voltage dip and a quick recovery time.

The set's quality allows us to back it with an industry leading one year, unlimited-hour, warranty. This, along with sole-source supply, assures you of quick and total product support.

Special needs? Our engineers will use a NL676AB as a foundation for a custom set designed for your application requirements.



Set shown with
optional Series 6
AC/DC Autostart Panel

STANDARD FEATURES & OPTIONS

Heavy Duty Engine

- John Deere, liquid cooled, in-line, industrial diesel engine designed to produce peak torque at low RPM.
- Replaceable, liquid cooled cylinder liners for long life and low rebuild costs.
- Liquid cooled with radiator. Pusher cooling fan has hand guard to protect operator. Steel radiator shroud standard.
- Four cycle operation and direct injection for fuel economy and low noise.
- Engine mounted secondary fuel filter with can-type element and fuel drain.
- Fuel lines routed to fuel manifold on base frame for easy installation.
- Full flow, spin-on oil filter with bypass.
- Jacketwater engine oil cooler reduces heat and thermal breakdown of lube oil.
- Oil spray piston cooling.
- Shipped with lube oil included.
- Turbocharger & liquid-to-air aftercooler increases output, lowers specific fuel consumption and thermal loading.
- Large, dry element, industrial air filter protects engine in dusty environment.
- 12 volt system with starter motor, battery charging alternator and regulator.
- Low oil pressure and high coolant temperature shutdown system.
- Every engine is dyno tested. Every set is

- Control panel with NEMA 1 enclosure, oil pressure and coolant temperature gauges, DC volt and engine hour meters, and engine control switches is standard equipment.



Conservative AC Generator

- Northern Lights, direct coupled, single bearing, 12 lead, reconnectable generators are torsionally matched with engine.
- Brushless design is maintenance free.
- Generators meet or exceed NEMA and BS standards with class H insulation, accessible diodes, oversized ball bearings and conservative 105°C temperature rise at prime rating and 130°C at standby.
- Automatic voltage regulators give quick response, excitation support and stable paralleling. Voltage is regulated to $\pm 1\%$ RMS from no load to full load.

Special Set Features

- Heavy duty, steel base frames.
- Long life white enamel paint for better service visibility.
- Center bonded vibration isolation mounts reduce noise and vibration.
- Parts and operator's manuals standard.

Integrated options

- ▼ Control Panels
 - ☐ AC & DC monitoring panel
 - ☐ PLC controlled auto-start panel
 - ☐ 7 light monitoring module
 - ☐ 12 light monitoring module
 - ☐ Stop-Start panels
- ☐ Manual transfer switches
- ☐ Automatic transfer switches
- ☐ Circuit breakers
- ☐ Paralleling switchgear
- ▼ Alarms and Shutdown Systems
 - ☐ Overspeed shutdown
 - ☐ Low coolant level shutdown
 - ☐ Low lube oil level shutdown
- ▼ Exhaust Muffler System
 - ☐ Residential ☐ Critical ☐ Compact
- ▼ Heaters and Tanks
 - ☐ Jacket water heater
 - ☐ Lube oil heaters
 - ☐ Day tank
 - ☐ Fuel tank
 - ☐ Dry sump lube oil tank
- ▼ Enclosures
 - ☐ Weather enclosure
 - ☐ Arctic single or multi-set enclosures
 - ☐ Sound attenuation enclosure
 - ☐ Trailer mounted enclosure
- ☐ Custom painting
- ☐ Export crating
- ☐ Certified test results
- ☐ Heat recovery systems

load tested with controls installed.

☐ Wind-solar-diesel power system