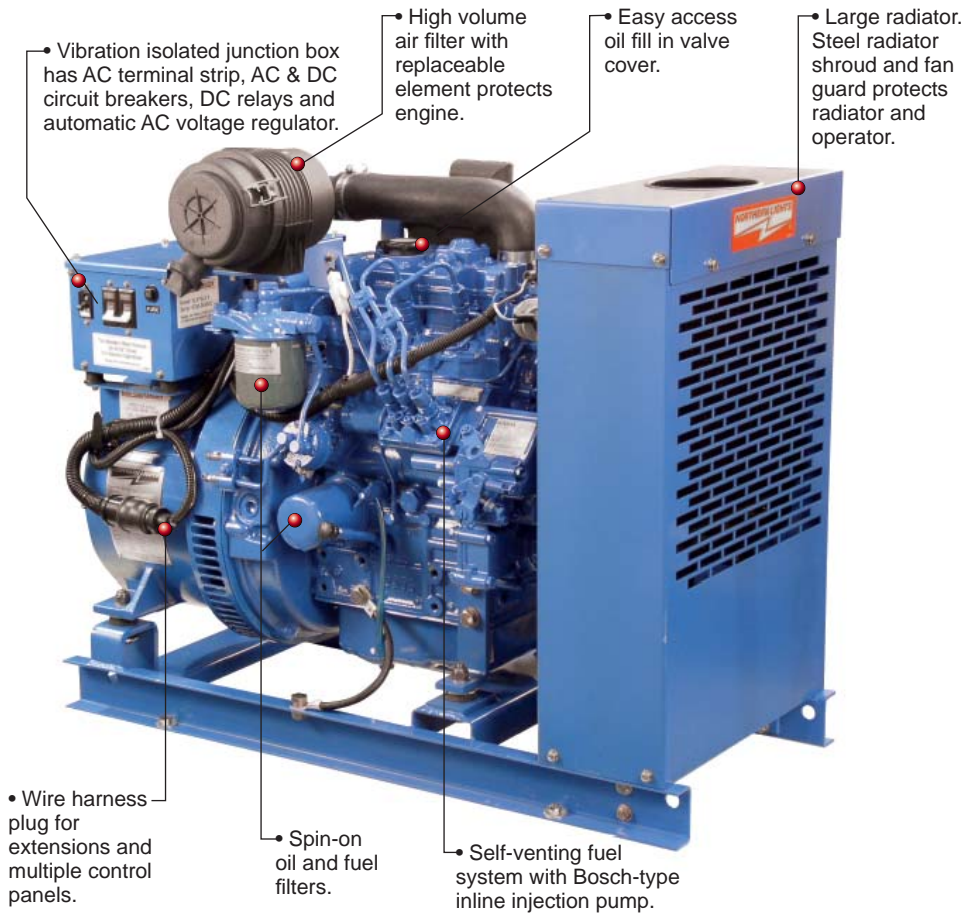
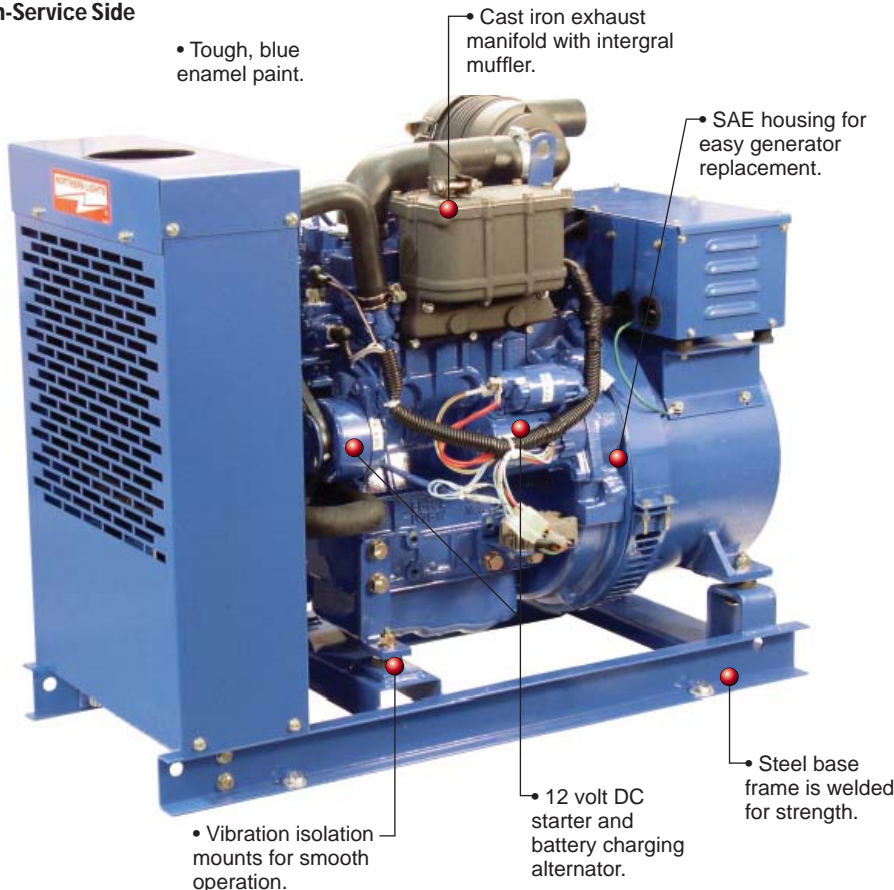


Service Side



Non-Service Side



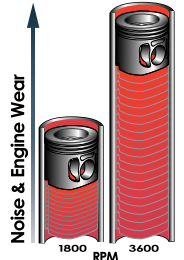
6 kW
60 Hz / 1800 RPM

5 kW
50 Hz / 1500 RPM

Why keep buying throwaway gas portables when you can have a prime power, diesel set?

Gas portables are great for low-hour use on a job site. But for prime power you want the safety and long-life only a set powered by an 1800 rpm diesel engine can give.

Designed for farm tractors, the 46 cubic inch diesel that powers a Northern Lights L673L3 has the low end torque needed to start big electric motors. Dependable too; the engine will last thousands of hours with just routine maintenance. It operates at 1800 rpm (1500 rpm for 50 hz), half the speed of light duty 3600 rpm sets. Half the wear and tear, too.



Clean, quiet operation.

Meets US EPA Tier III emission standards for a cleaner environment. The built-in muffler reduces exhaust noise so well that an additional muffler is often not needed. Simplifies installation too.



Fuel economy.

Economical operation is a necessity in remote areas. The NL673L3 uses less than one half gallon of fuel per hour in normal use. Diesel is less expensive and safer to transport and store than volatile gasoline.

Only 32.8 inches long and 377 lbs. light.

Northern Lights are easy to install, operate and maintain. Each has a self-venting fuel system, unit mounted control panel and is ready for connection to your electrical distribution system. Just add a battery and fuel, and you have power with a touch of the starter button.

Service is easy, too. All the maintenance points are on one side. Low oil pressure and high coolant temperature shutdowns protect your investment while you are away.

Northern Lights reconnectable generator.

Your choice of 120-240 volt or straight 120 volt power. An auxiliary generator winding provides clean power to the automatic voltage regulator for faster load response and better motor starting.

Thorough testing.

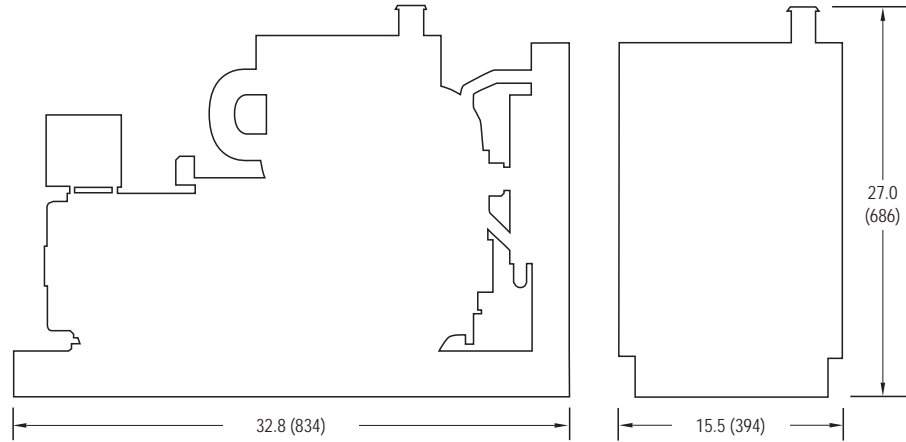
Every NL673L3 has been fully load tested before shipment. This is part of a quality control program that assures your satisfaction and years of service.

See your Dealer.

Let them explain the benefits of owning a Northern Lights and show you the options available to customize the set to meet your special power requirements.

AC Output ¹	
6 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/25A, 120 V/50A
5 kW	50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/22.7A
Voltage regulation	±5%
Lugger L844 Engine	
Type	Vertical 3 cylinder diesel
Displacement	46.4 in ³ (0.76 ltr)
Bore/Stroke	2.64/2.83 in (67/72 mm)
HP @ RPM	9.9/1800 7.7/1500
Approx. fuel use	
1800 RPM @ full load ²	0.59 gph (2.2 lph)
1800 RPM @ half load ²	0.32 gph (1.2 lph)
1500 RPM @ full load ²	0.50 gph (1.9 lph)
1500 RPM @ half load ²	0.28 gph (1.1 lph)
Installation Data & Weight	
Exhaust outlet	1.25 inch (32 mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	377 lbs (171 kg)

NL673L3 Dimensional Drawing



NL673L3 Overall Dimensions L x W x H: 32.8 x 15.5 x 27.0 inch (834 x 394 x 686 mm)

Base Length: 32.8 in (834 mm) Base Width: 15.3 in (390 mm)

Dimensions given in inches (mm). Dimensions subject to change without notice. Contact dealer or visit www.northern-lights.com for most current installation drawings.

- Based on 1.0 unity power factor. Deratings: 3% per 1000 ft. over 500 feet above sea level. 1.5% for every 10° over 77°F
- Actual fuel consumption will vary depending on operating conditions.

Features and Benefits

Engine Block

- Four cycle, 3 cylinder, liquid cooled, naturally aspirated, overhead valve, industrial-duty diesel.
- Swirl combustion design improves fuel efficiency, reduces smoke and noise.
- Glow plugs for fast cold weather starting.

Cooling System

- Liquid-cooled with radiator and pusher cooling fan. Steel radiator shroud and fan guard protects the radiator and operator.

Self-Venting Fuel System

- Bosch-type in-line injection pump.
- Stop solenoid controls the fuel rack, not throttle, to eliminate speed variance and linkage problems.
- Engine speed governed to 5% for close AC frequency control.
- Pintle fuel injectors have replaceable tips for lower service costs.
- Mechanical fuel pump with hand primer.
- Large spin-on fuel filter.
- Steel fuel lines.

Lubrication System

- Pressure lubricated. Trochoid oil pump.
- Full flow, spin-on oil filter with bypass.
- 3.1 qt. (3 ltr) oil capacity.

Intake and Exhaust

- Large replaceable air filter protects engine in dusty environments.
- Residential muffler built into the exhaust manifold simplifies installation.



- Meets US EPA Tier III exhaust emission requirements.

DC Electrical System

- 12 volt system includes starter motor, battery charging alternator with solid state voltage regulator and DC circuit breaker.
- Standard, unit mount S-1B control panel has engine hour meter, start-stop switch with run light and preheat switch.
- Dual panel relays and quick disconnect harness plug-ins. With optional Y-harness and 10, 20 or 40 foot wire harness extensions, you can have up to six remote control panels up to 100 feet from the generator set.
- Safety shutdown system for low oil pressure and high coolant temperature.



AC Generator

- Northern Lights, direct coupled, 4 pole, revolving field, 4 lead reconnectable generator with Class H insulation and prelubricated bearing. Conservative heat rise rating: 95°C/50°C ambient. Compare this to light duty sets with heat rise ratings of 130°C or higher.
- External automatic voltage regulator gives you ±5% voltage regulation. AVR powered by dedicated AC winding for improved motor starting. AVR circuit breaker.
- 30 amp mainline circuit breaker protects generator from AC overloads and shorts.
- High air flow from integral fan keeps generator running cool.

Special Equipment

- Welded steel skid frame gives rigid support and makes installation easy.
- Flexible mounts isolate engine vibration for smooth operation.
- Long life, blue enamel paint finish.
- Operator's and parts manuals.
- Rigorous quality control includes a test run with load.
- Export grade shipping crate protects set.

Accessories and Optional Equipment



Let your dealer help you custom design a set that matches your special application using the complete line of Northern Lights accessories:

- Unit enclosures and mobile units.
- AC and DC control panels.
- Exhaust system components
- Fuel filter-water separators.
- Wire harness extensions.
- Alarms and safety shutdown systems.
- Heaters.
- Air ducts.
- Dry sump units.
- Batteries.... and much more.

Dealer

4420 14th Ave. NW., Seattle WA 98107
Tel: (206) 789-3880 • 1-800-762-0165 • Fax: (206) 782-5455
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