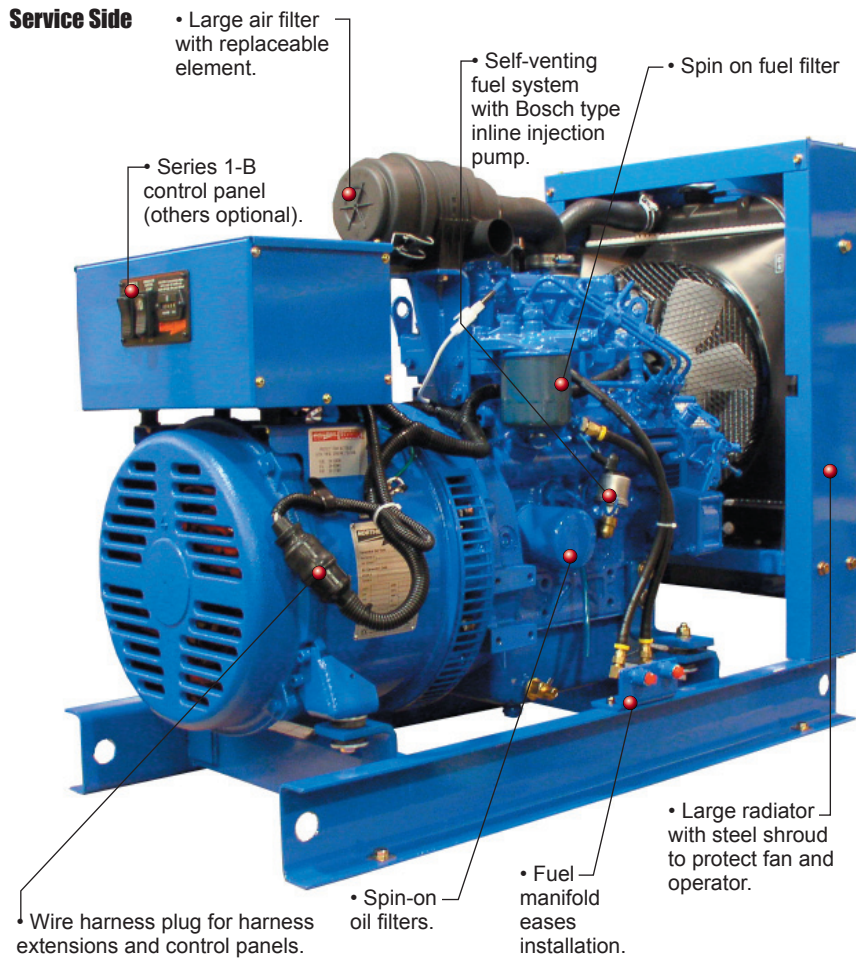
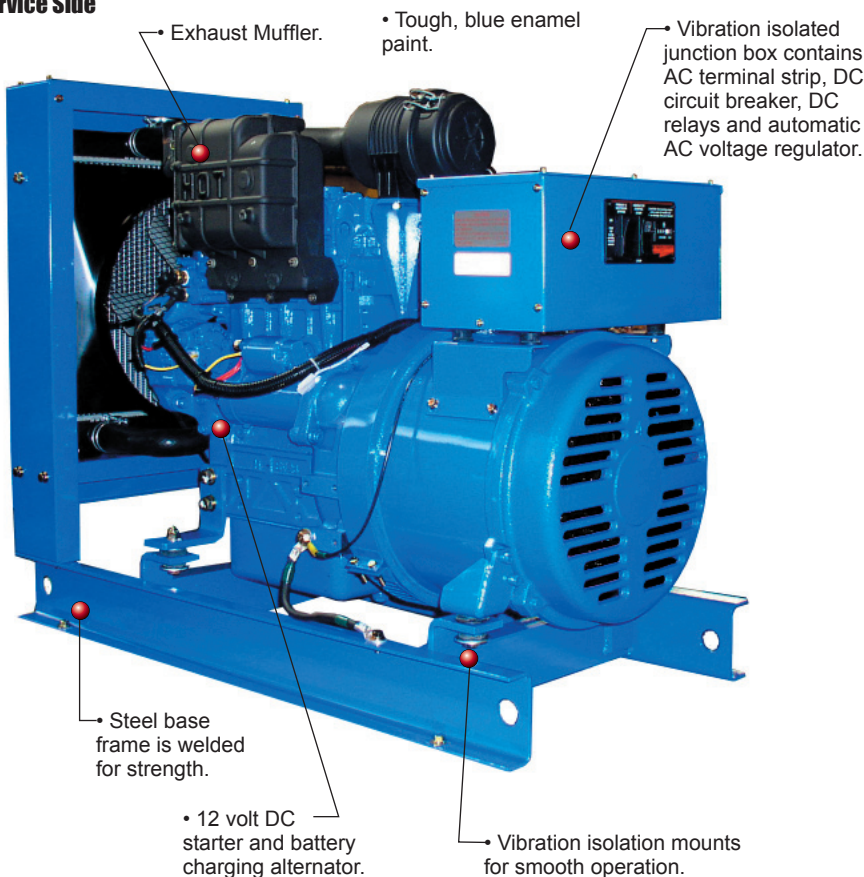


Service Side



Non-Service Side



9 kW

60 Hz / 1800 RPM

7 kW

50 Hz / 1500 RPM

Prime Power Experts

You'll find Northern Lights generator sets wherever prime power is needed. We began building Northern Lights sets to power the Alaskan bush country in 1963. Today our sets are at work worldwide, with a comprehensive warranty program, and global dealer network to back up the best products on the market.

Tractor-tough Diesels

The long-stroke engines that power the NL773LW3 are based on heavy-duty tractor engine blocks, then customized for optimal prime power production. With proper maintenance, Northern Lights generator sets have logged over 25,000 hours. Because these low-end torque powerhouses operate at 1800 rpm (or 1500 at 50Hz), they exhibit less wear and tear than the competitors' light weight intermittent duty 3600 rpm gensets.

W-Series Generator End

The engine powers Northern Lights' exclusive W-Series generator end. This brushless generator features an auxiliary stator winding that provides separate, stable power to the automatic voltage regulator. This provides real 300% short circuit capability and improved breaker performance.

Clean, Quiet Operation

The NL773LW3 meets US EPA Tier 3 emission standards, ensuring clean, quiet operation and long-term usage. A large muffler comes standard for a power solution that is quieter than comparable models.



Outstanding Fuel Economy

The NL773LW3 runs on easily transportable diesel and provides excellent fuel economy; ideal for remote locations

Simplicity

Northern Lights generator sets are easy to install, operate and maintain. The NL773LW3 has a self-venting fuel system, mounted control panel and is shipped ready for connection to your electrical distribution system.

To ensure ease of maintenance, all the key service points are on a common side. Low oil pressure and high coolant temperature shutdowns protect your investment.

Worldwide Dealership Network

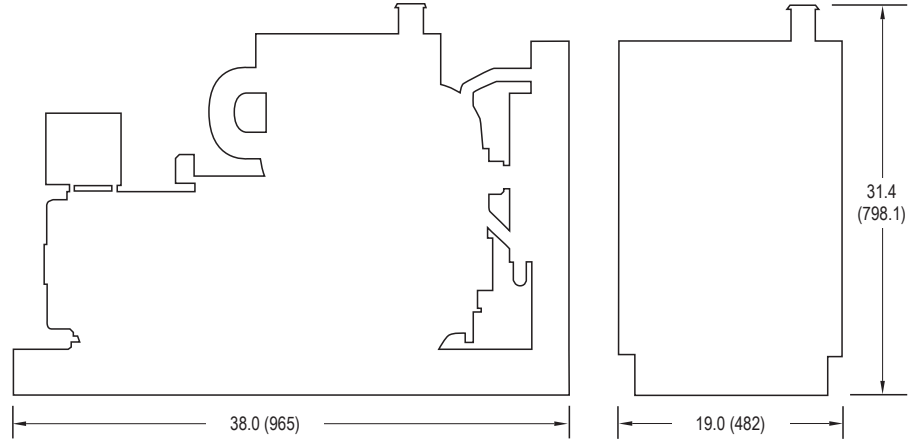
Northern Lights products are sold and supported by a dealer network nearly 300 strong. Your Northern Lights dealer or factory representative can help you find the right solution to your power production needs.



AC Output ¹	
9 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/37.5A, 120 V/75A
7 kW	50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/31.8A
Optional	Three Phase with 0.8 PF
Voltage regulation	±1%
Lugger L773L Engine	
Type	Vertical inline 3 cylinder diesel
Displacement	69 in ³ (1.13 ltr)
Bore/Stroke	3.03/3.19 in (77/81 mm)
HP @ RPM	15/1800 12/1500
Exhaust outlet	1.25 inch (31.75 mm) OD
Approx. fuel use	
1800 RPM @ full load ²	0.93 gph (3.52 lph)
1800 RPM @ half load ²	0.51 gph (1.93 lph)
1500 RPM @ full load ²	0.72 gph (2.72 lph)
1500 RPM @ half load ²	0.37 gph (1.4 lph)
Installation Data & Weight	
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	571 lbs (251 kg)
Exhaust Outlet	1 1/4 in (31.75 mm)

1. Based on SAE J1995 and ISO 3046.
2. Actual fuel consumption will vary depending on operating conditions.

NL773LW3 Dimensional Drawing



NL773LW3 Overall Dimensions L x W x H: 38.0 x 19.0 x 31.4 inch (965 x 482 x 798.1 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.

NL773LW3 Features and Benefits

Engine Block

- Four cycle, 3 cylinder, liquid cooled, naturally aspirated, overhead valve, industrial-duty diesel.
- Indirect injection with glow plugs for fast cold weather starts

Cooling System

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

Fuel System

- Fuel system is self venting.
- In-block inline pump.
- Stop solenoid controls the fuel rack - not throttle - to eliminate speed variance and linkage issues.
- Engine speed governed to 5% for close AC frequency control.
- Pintle fuel injectors with replaceable tips lower service cost.
- Large spin-on fuel filter.
- Flexible fuel lines routed to fuel manifold for easy tank connectivity.

Lubrication System

- Pressure lubricated. Gerotor oil pump.
- Full flow, spin-on oil filter with bypass.
- 5 qt. (4.9 ltr) oil capacity for better lubrication.

Intake and Exhaust

- Meets US EPA Tier III emission requirements
- Large, replaceable air filter protects engine in dusty environments.
- Unit mounted residential muffler



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.
- Standard safety shutdowns for low oil pressure and high coolant temperature.
- Dual panel relays and quick disconnect harness plug-ins. With optional Y-harness and 10, 20 or 40 foot harness extensions, allows up to six remote control panels, up to 100 feet from the set.

AC Generator

- Northern Lights, direct coupled, brushless AC generator is maintenance free. 4 lead, 1 phase, 1.0 pf, 50 or 60 Hz output. 12 lead-3 phase is optional. Conservative heat rise rating: 95°C/50°C ambient.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 300% short circuit capability. Quick ±1% RMS no load to full load voltage regulation. AVR has circuit breaker protection.
- Generator features high quality, Class "H" epoxy insulation, accessible diodes, over-sized bearing and junction box for wiring.
- High air flow from integral fan keeps generator running cool.

Special Features

- Welded steel frame provides rigid support and ease of installation.
- Four centerbonded mounts isolate vibration.
- Long life, blue enamel paint finish.
- Full load testing at factory ensures trouble-free operation
- Operator's and parts manuals provided with each set.
- Custom shipping crate and carton.

Accessories and Options

Your dealer or factory representative can help you custom design a power production set that matches your specific application using Northern Lights' comprehensive line of options and accessories including:



- 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
- ...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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