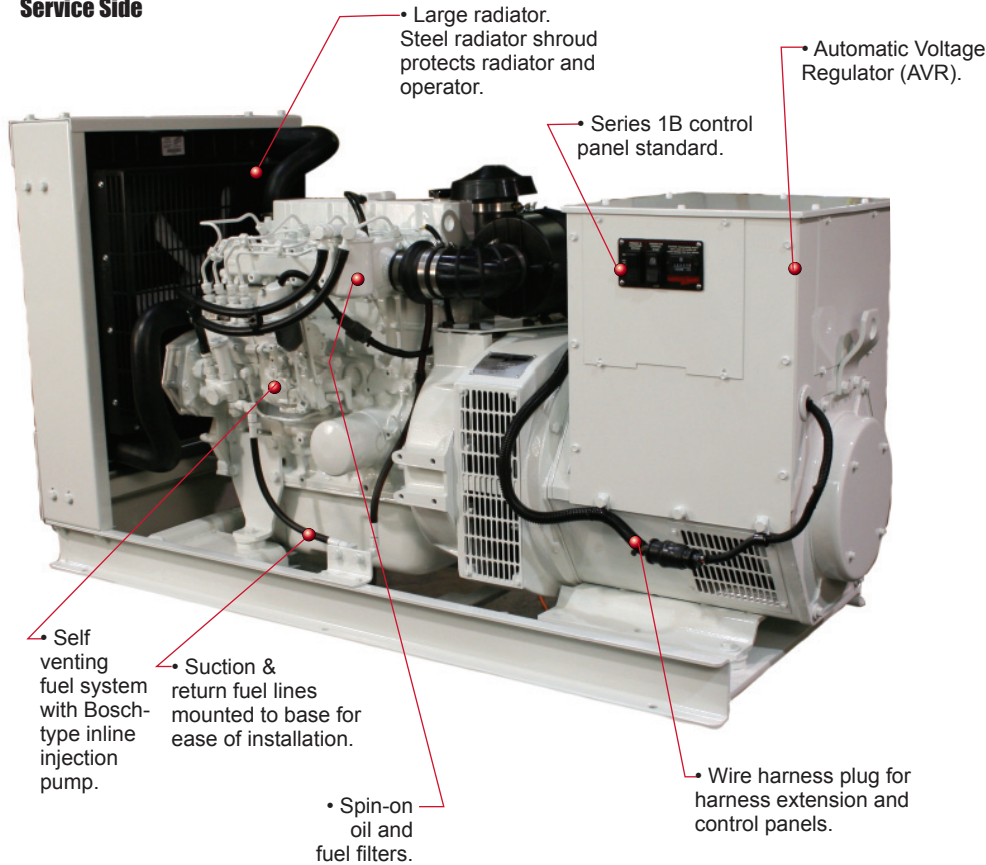
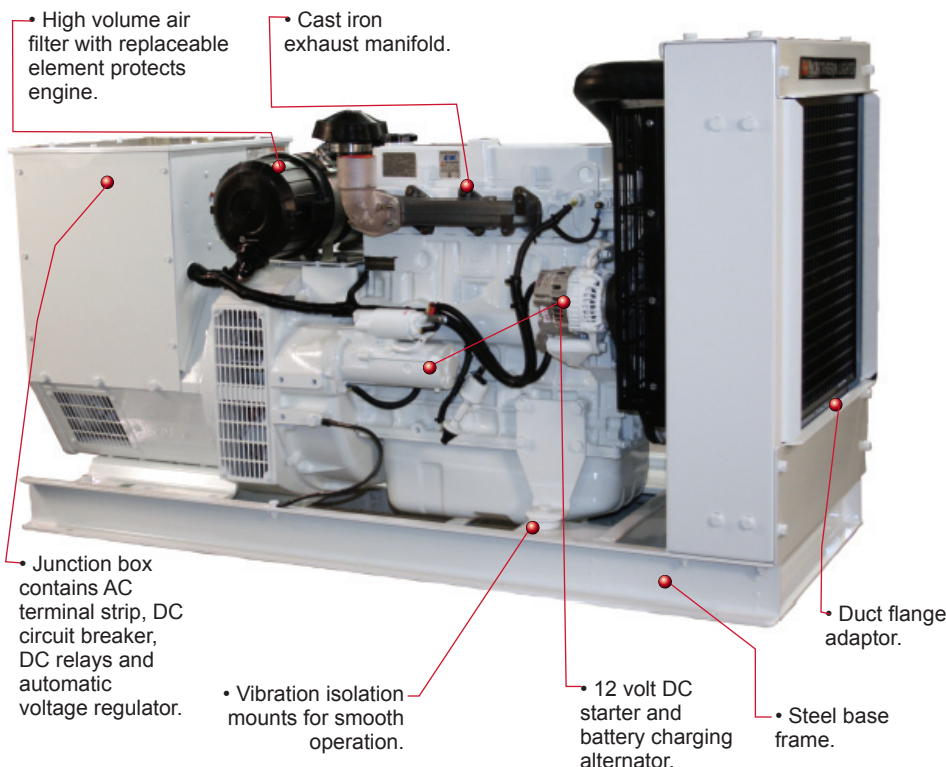


Service Side



Non-Service Side



• Tough, white Imron® paint.

28 kW
60 Hz / 1800 RPM

24 kW
50 Hz / 1500 RPM

If you require a 28kW generator set, chances are you are powering a critical job. Whether for a work site, cabin, lodge, or standby emergency power, you need power on demand. You need a Northern Lights.

The NL944D3 is built for just these type of rugged applications. Built around a four-cylinder, 203 cubic inch base, the NL944D3 provides the power to run worry free and start electric motors with ease.

Indirect injected and naturally aspirated, the NL944D3 meets US EPA Tier III emission standard with a clean-burn design that cuts fuel use. At full load, the NL944D3 uses only 2.5 gallons of diesel per hour. Smoke and noise signatures are also significantly lowered.

The NL944D3 is equipped with a ruggedly reliable generator end. Its automatic voltage regulator features quick +/- 1% RMS no load to full load capability.

Other features for long life and utility abound: high air flow through a large radiator with an easy access fill. A steel shroud protects radiator and operator. Most service points are thoughtfully aligned on a common side, making standard maintenance a breeze and permitting flexibility in installation.

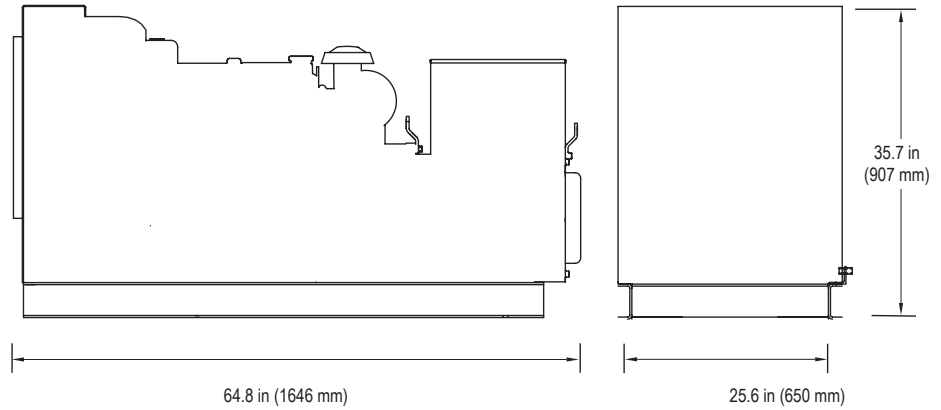
The engine and generator are mounted to the steel base frame with vibration isolation mounts for smooth and quiet operation. Fuel supply and return lines are routed to the frame for easy installation.

Like all Northern Lights models, the NL944D3 is easily customizable. From control panels to enclosures, trailers and a wide range of pre-engineered options, your Northern Lights dealer can help turn your generator set into a one of a kind power solution best suited to your needs.



AC Output ¹	
28 kW	60 Hz, 1800 RPM, 3 Ph, 0.8 PF, 120/208V, 97A, opt.1 Ph: 240V,117A
24 kW	50 Hz, 1500 RPM, 3 Ph, 0.8 PF, 220/380 V, 46A, opt. 1 Ph: 220V, 109A
Optional	Single Phase with 1.0 PF
Voltage regulation	±1%
Lugger L944 Engine	
Type	Vertical inline 4 cylinder diesel
Displacement	203 cubic in (3.33 ltr)
Bore/Stroke	3.70/4.72 in (94/120 mm)
HP @ RPM	46 @ 1800
Approx. fuel use	
1800 RPM @ full load ²	2.5 gph (8.6 lph)
1800 RPM @ half load ²	1.5 gph (5.3 lph)
Installation Data & Weight	
Exhaust outlet	2 inch (51mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	1316 lbs (600 kg)

NL944D3 Dimensional Drawing



NL944D3 Overall Dimensions L x W x H: 64.8 x 25.6 x 35.7 inch (1646 x 650 x 907 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.

- 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

- Lugger four cycle, 4 cylinder, liquid cooled, naturally aspirated, overhead valve industrial duty diesel engine block.
- 2 valves per cylinder.
- Double wall oil pan.
- Crankshaft is induction hardened, forged carbon steel; stronger than cast iron.
- Helical cut and ground carbon steel timing gears reduce noise.
- Cross flow head for efficient breathing.

Cooling System

- Liquid cooled with radiator and pusher cooling fan. Radiator shroud and fan hand guard.

Fuel System

- Indirect Injection with glow plugs.
- Bosch-type in-line injection pump with 5% mechanical governor for close AC output frequency control.
- Pintle type injectors.
- Mechanical fuel lift pump with hand primer.
- Large spin-on fuel filter.
- Flexible fuel lines routed to base.
- Stop solenoid controls fuel rack, not throttle, for fast engine shutdowns.

Intake and Exhaust

- Meets US EPA Tier III emission requirements.
- Large air cleaner with replaceable filter element.



Lubrication System

- Full flow, spin-on oil filter with bypass.

DC Electrical System

- 12 volt starter and battery charging alternator with regulator.
- DC system uses reliable relays instead of unrepairable printed circuit boards.
- Standard panel: unit mounted S-1B has hour meter, shutdown bypass, stop-start switch and preheat switch.
- Expandable to six panels, 110 ft from set.
- Low oil pressure, high coolant temp shutdowns are standard.

AC Generator

- Direct coupled, 4-pole, revolving field generator with Class H insulation and pre-lubricated, double sealed bearing. Brushless design is maintenance free. 12 lead-3 phase standard.
- Conservative heat rise rating of 95°F / 50°C, ideal for tropical applications and continuous operation.
- Automatic Voltage Regulator (AVR) gives quick +/-1% RMS no load to full load voltage regulation.
- High air flow from cast aluminum fan keeps generator running cool.
- Terminal strip in j-box for easy voltage changes and connection to AC distribution system.



- Vibration mounts isolate engine vibration for smooth, quiet operation.
- Long life, Imron® enamel finish for excellent service visibility.
- Operator's and parts manuals standard. Optionally available on CD-ROM.
- Each set is test run with load.
- Industry-best, transferrable warranty.

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... and much more.

Dealer

4420 14th Ave. NW., Seattle WA 98107
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Information and dimensions subject to change without notice.

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