

36 kW
60 Hz / 1800 RPM

32 kW
50 Hz / 1500 RPM

If you require a 36kW 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 NL944T3 is built for just these type of rugged applications. Built around a four-cylinder, 203 cubic inch base, the NL944T3 provides the power to run worry free and start electric motors with ease.

Direct injected and turbocharged, the NL944T3 meets US EPA Tier III emission standard with a clean-burn design that cuts fuel use. At full load, the NL944T3 uses only 2.5 gallons of diesel per hour. Smoke and noise signatures are also significantly lowered.

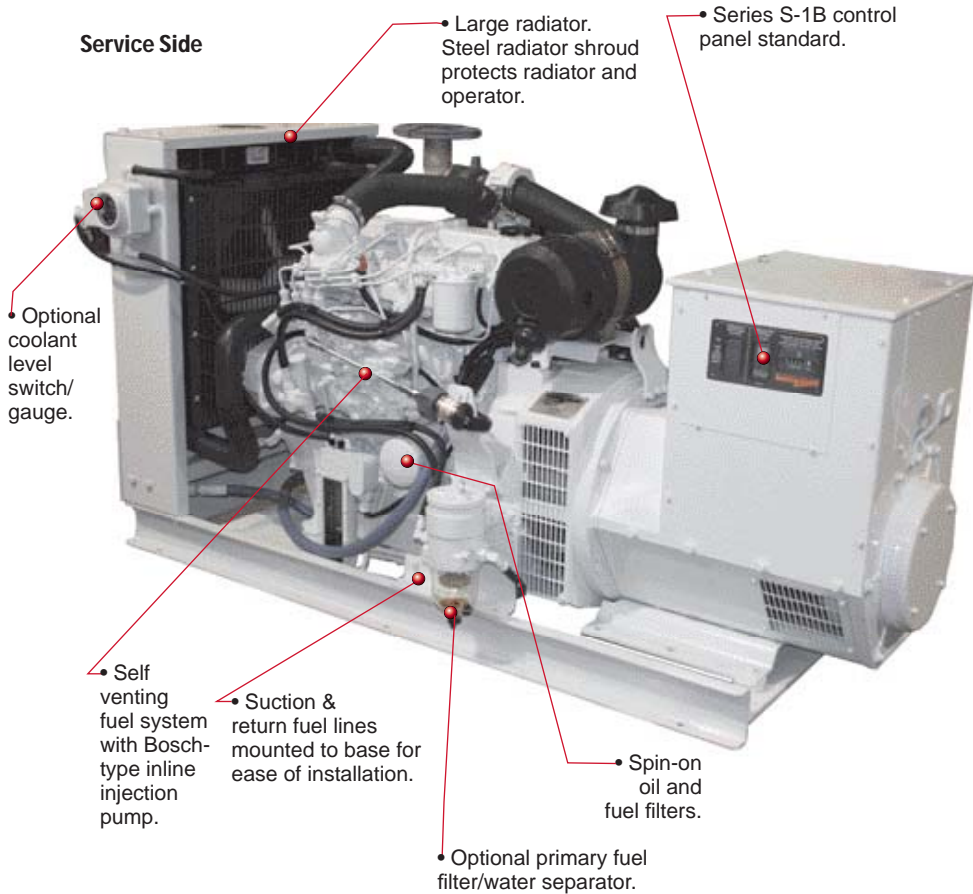
The NL944T3 is equipped with a ruggedly reliable generator end. It's automatic voltage regulator features quick +/- 1% RMS no load to full load voltage regulation capability.

Other features for long life and utility abound: abundant cooling comes from 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 flexibly mounted to the steel base frame for smooth and quiet operation. Fuel supply and return lines are routed to the frame for easy installation.

Like all Northern Lights models, the NL944T3 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.

Service Side



• Optional coolant level switch/gauge.

• Large radiator. Steel radiator shroud protects radiator and operator.

• Series S-1B control panel standard.

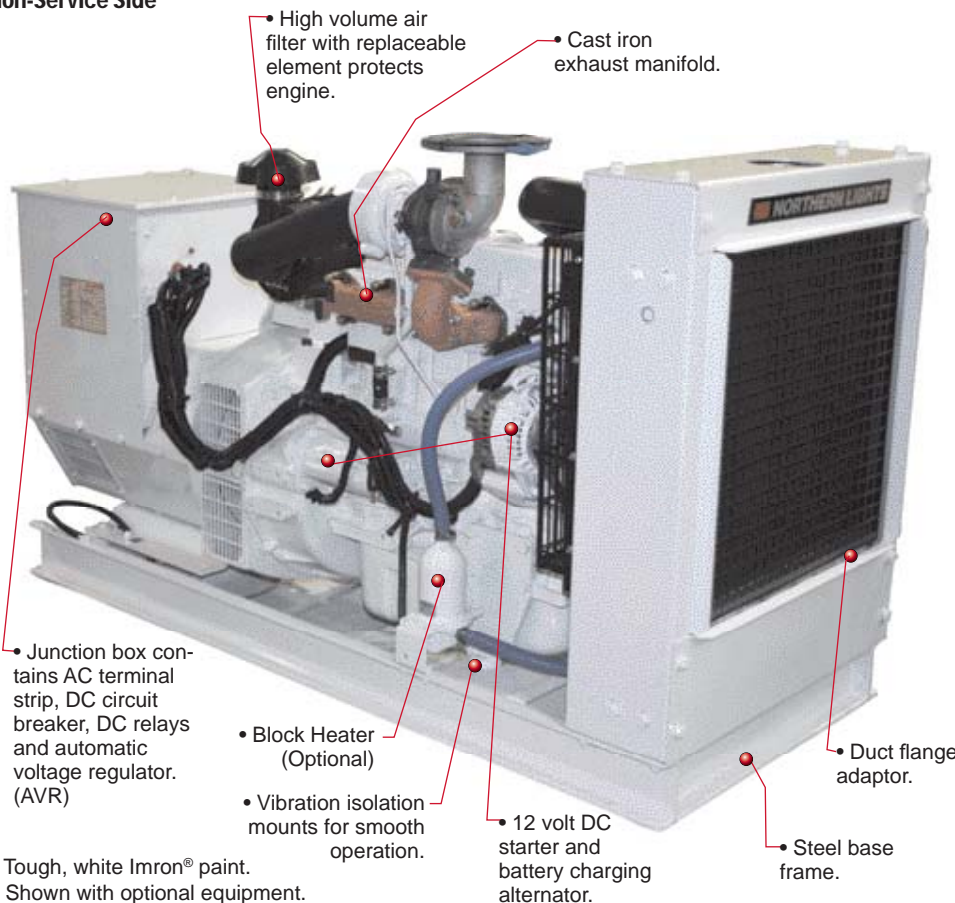
• Self venting fuel system with Bosch-type inline injection pump.

• Suction & return fuel lines mounted to base for ease of installation.

• Spin-on oil and fuel filters.

• Optional primary fuel filter/water separator.

Non-Service Side



• High volume air filter with replaceable element protects engine.

• Cast iron exhaust manifold.

• Junction box contains AC terminal strip, DC circuit breaker, DC relays and automatic voltage regulator. (AVR)

• Block Heater (Optional)

• Vibration isolation mounts for smooth operation.

• 12 volt DC starter and battery charging alternator.

• Duct flange adaptor.

• Steel base frame.

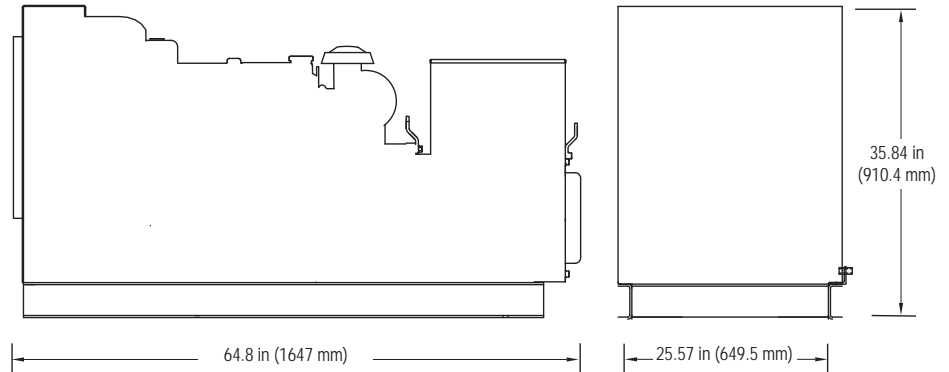
• Tough, white Imron® paint.
• Shown with optional equipment.



| AC Output ¹ | |
|-----------------------------------|--|
| 36 kW | 60 Hz, 1800 RPM, 3 Ph, 0.8 PF, 120-208V / 125A, 120V / 300A |
| 32 kW | 50 Hz, 1500 RPM, 3 Ph, 0.8 PF, 220V / 105A |
| 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) |
| Aspiration | Turbocharged |
| Fuel System | Bosch type inline injection pump |
| Approx. fuel use | |
| 1800 RPM @ full load ² | 2.8 gph (8.6 lph) |
| 1800 RPM @ half load ² | 1.5 gph (5.3 lph) |
| 1500 RPM @ full load ² | 2.3 gph (7.4 lph) |
| 1500 RPM @ half load ² | 1.2 gph (4.2 lph) |
| Installation Data & Weight | |
| Fuel inlet and return | 1/4 inch NPT |
| Approximate dry weight | 1390 lbs (630 kg) |

1. Deratings: 3% per 1000 ft. over 500 feet above sea level.
1.5% for every 10° over 77°F
2. Actual fuel consumption will vary depending on operating conditions.

NL944T3 Dimensional Drawing



NL944T3 Overall Dimensions L x W x H: 64.8 x 25.57 x 35.84 inch (1647 x 649.5 x 910.4 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.

Features and Benefits

Engine Block

- Lugger, four cycle, 4 cylinder, liquid cooled, turbocharged, overhead valve industrial duty diesel engine.
- Two 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

- Direct 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.

DC Electrical System

- DC system uses reliable relays instead of unrepairable printed circuit board.
- 12 volt starter and battery charging alternator with regulator.
- Standard panel: J-box mounted S-1B has hour meter, shutdown bypass, stop-start switch and preheat switch.
- Low oil pressure and high coolant temperature shutdowns are standard.



AC Generator

- Northern Lights, 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 temperature rise rating of 105°C/ 40°C, ideal for applications in extreme climates 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.

Special Equipment

- Steel base frame provides rigid support and makes installation easy.
- 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 on load bank.

Accessories and Optional Equipment



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

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

Dealer

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Information and dimensions subject to change without notice.
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