



NL673L4

5 kW , 60 Hz @ 1800 RPM
4.5 kW , 50 Hz @ 1500 RPM

AC Output¹

5 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/25A, 120 V/50A
4.5 kW	50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/22.7A

Voltage regulation ±5%

Lugger L673L 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

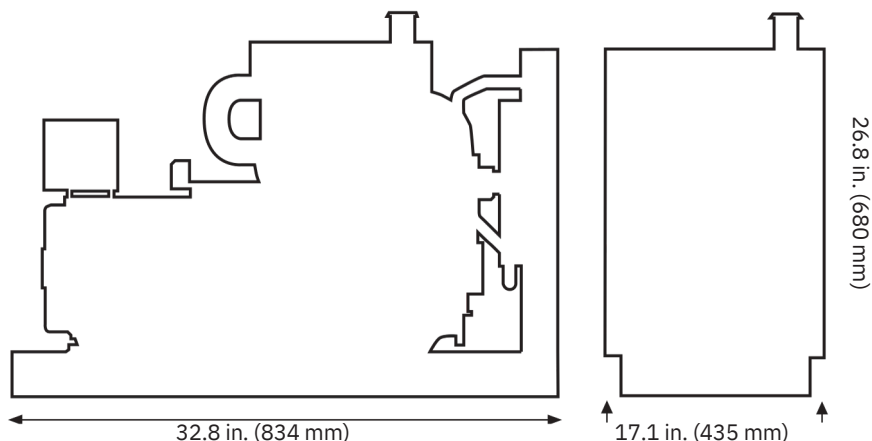
1800 RPM @ full load ²	0.59 gph (2.2 lph)
1800 RPM @ half load ²	0.32 gph (1.2 lph)
1500 RPM @ full load ²	0.50 gph (1.9 lph)
1500 RPM @ half load ²	0.28 gph (1.1 lph)

Installation Data & Weight

Exhaust outlet	1.25 inch (32 mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	390 lbs (178 kg)

1. 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
2. Actual fuel consumption will vary depending on operating conditions.

DIMENSIONAL DRAWING



NL673L4 Overall Dimensions L x W x H: 32.8 x 17.1 x 26.8 inch (834 x 435 x 650 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.

NL673L4 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 IV exhaust emission requirements for cleaner air.

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 airflow from integral fan keeps generator running cool.

SPECIAL EQUIPMENT

- Welded steel skid frame gives rigid support and makes installation easy.
- Enhanced fan guard for improved operator safety.
- 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.





NL673L4E

6 kW , 60 Hz @ 1800 RPM
5 kW, 50 Hz @ 1500 RPM

AC Output¹

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 L673L Engine

Type	Vertical 3 cylinder diesel
Displacement	46.4 in3 (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)

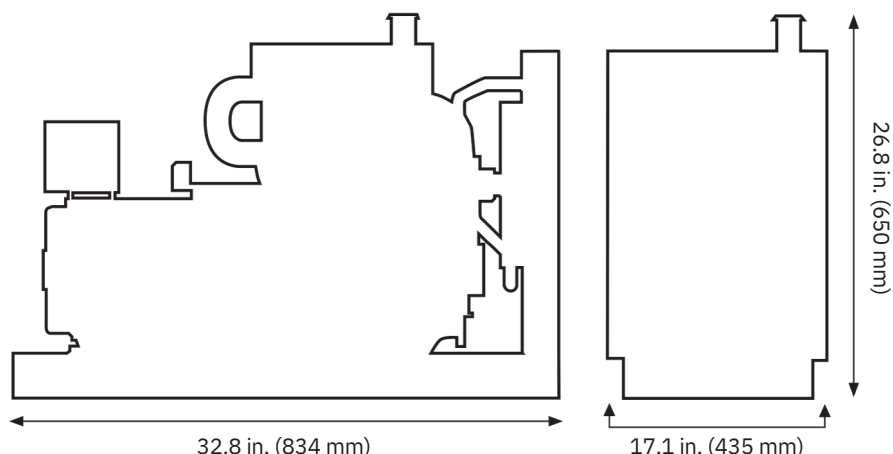
Installation Data & Weight

Exhaust outlet	1.25 inch (32 mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	390 lbs (178 kg)

1. 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

2. Actual fuel consumption will vary depending on operating conditions.

DIMENSIONAL DRAWING



NL673L4E Overall Dimensions L x W x H: 32.8 x 17.1 x 26.8 inch (834 x 435 x 650 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.

NL673L4E 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 ELECTRICAL FUEL SYSTEM

- Electrical fuel system for safe, economical function.
- 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 IV exhaust emission requirements for cleaner air.

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.
- Enhanced fan guard for improved operator safety.
- 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.



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NL773LW4

8 kW , 60 Hz @ 1800 RPM
6.5 kW, 50 Hz @ 1500 RPM

AC Output¹

8 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/33.3A, 120 V/67A
Optional	Three Phase with 0.8 PF
Voltage regulation	±1%

Lugger L773L Engine

Type	Vertical inline 3 cylinder diesel
Displacement	69 in3 (1.13 ltr)
Bore/Stroke	3.03/3.19 in (77/81 mm)
HP @ RPM	15/1800 12/1500

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)

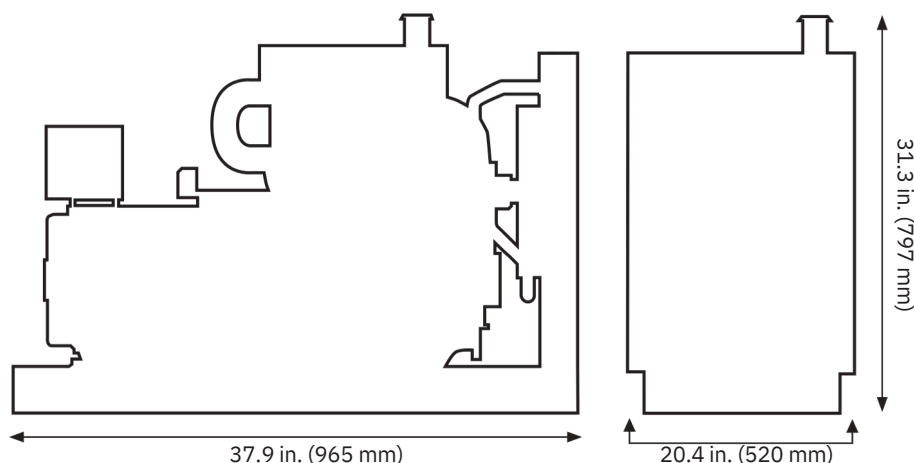
Installation Data & Weight

Fuel inlet and return	1/4 inch NPT
Exhaust Outlet	1 1/4 in (31.75 mm)
Approximate dry weight	551 lbs (250 kg)

1. Based on SAE J1995 and ISO 3046.

2. Actual fuel consumption will vary depending on operating conditions.

DIMENSIONAL DRAWING



NL773LW4 Overall Dimensions L x W x H: 37.9 x 20.4 x 31.3 inch (965 x 520 x 797 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.

NL773LW4 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 IV emission requirements for cleaner air.
- 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.
- Enhanced fan guard for improved operator safety.
- 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.



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NL773LW4E

9 kW , 60 Hz @ 1800 RPM

AC Output1

9 kW 60 Hz, 1800 RPM, 1 Ph, 1.0 PF,
120-240 V/37.5A, 120 V/75A

Optional Three Phase with 0.8 PF

Voltage regulation $\pm 1\%$

Lugger L773L Engine

Type Vertical inline 3 cylinder diesel

Displacement 69 in3 (1.13 ltr)

Bore/Stroke 3.03/3.19 in (77/81 mm)

HP @ RPM 15/1800

Exhaust outlet 1.25 inch (31.75 mm) OD

Approx. fuel use

1800 RPM @ full load2 0.93 gph (3.52 lph)

1800 RPM @ half load2 0.51 gph (1.93 lph)

Installation Data & Weight

Fuel inlet and return 1/4 inch NPT

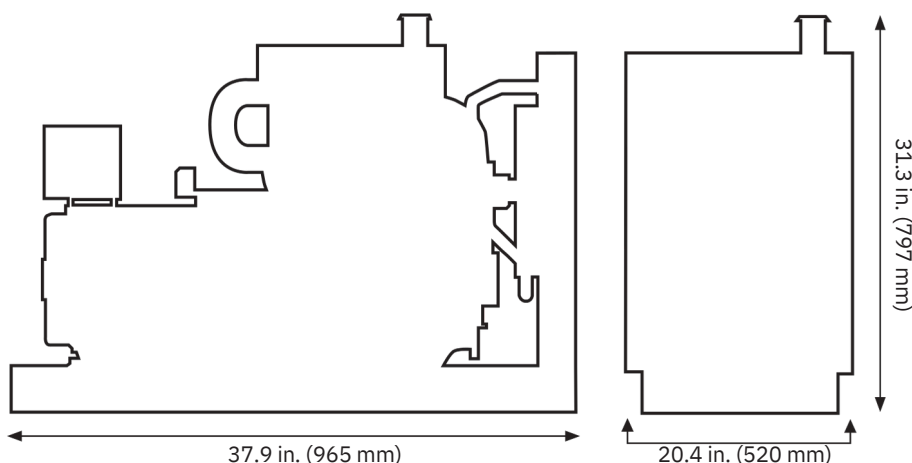
Exhaust Outlet 1 1/4 in (31.75 mm)

Approximate dry weight 556 lbs (252 kg)

1. Based on SAE J1995 and ISO 3046.

2. Actual fuel consumption will vary depending on operating conditions.

DIMENSIONAL DRAWING



NL773LW4E Overall Dimensions L x W x H: 37.9 x 20.4 x 31.3 inch (965 x 520 x 797 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.

NL773LW4E 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.

SELF-VENTING ELECTRICAL FUEL SYSTEM

- Electrical fuel system for safe, economical function.
- In-block inline pump.
- Actuator 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 IV emission requirements for cleaner air.
- 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.
- Electronic control with blink light.

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 $\pm 1\%$ 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.
- Enhanced fan guard for improved operator safety.
- 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.



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NL843NW4

12 kW , 60 Hz @ 1800 RPM
10 kW, 50 Hz @ 1500 RPM

AC Output¹

12 kW	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/50A, 120 V/100A
10 kW	50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/45.4A

Optional Three Phase with 0.8 PF
Voltage regulation $\pm 1\%$

Lugger L843 Engine

Type	Vertical 3 cylinder diesel
Displacement	91 in ³ (1.5 ltr)
Bore/Stroke	3.30/3.5 in (84/90 mm)
HP @ RPM	20.0/1800 17.0/1500

Approx. fuel use

1800 RPM @ full load ²	1.2 gph (4.5 lph)
1800 RPM @ half load ²	0.62 gph (2.3 lph)
1500 RPM @ full load ²	1.0 gph (3.8 lph)
1500 RPM @ half load ²	.51 gph (1.9 lph)

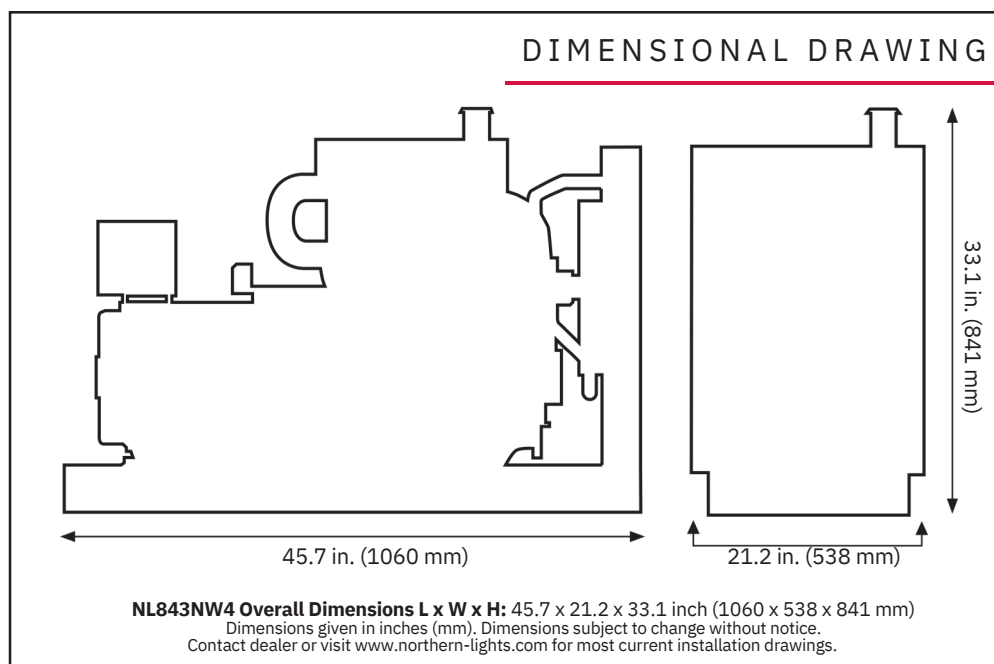
Installation Data & Weight

Exhaust outlet	1.38 inch (35 mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	668 lbs (303 kg)

1. 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

2. Actual fuel consumption will vary depending on operating conditions.

DIMENSIONAL DRAWING



NL843NW4 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.
- Fuel line manifold and flexible fuel lines for easy fuel tank connection.

LUBRICATION SYSTEM

- Full flow, spin-on oil filter with bypass.
- 5.8qt. (5.5ltr) oil capacity for better lubrication.

INTAKE AND EXHAUST

- Large replaceable air filter protects engine in dusty environments.
- Residential muffler built into the exhaust manifold saves installation time and costs.
- Set meets US EPA Tier IV emission requirements for cleaner air.

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 harness extensions, you can have up to six remote control panels, up to 100 feet from the set.
- Safety shutdown system for low oil pressure and high coolant temperature.

AC GENERATOR

- Northern Lights, direct coupled, brushless AC generator end is maintenance free. 4 lead, 1 phase, 1.0 pf, 50 or 60 Hz output. 12 lead-3 phase output is optional. Conservative heat rise rating: 95°C/50°C ambient for long generator life.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 300% short circuit capability. Quick $\pm 1\%$ 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 bearings and junction box for wiring.
- High airflow from integral fan keeps generator running cool.

SPECIAL EQUIPMENT

- Welded steel skid frame gives rigid support and makes installation easy.
- Enhanced fan guard for improved operator safety.
- 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.
- Shipping crate protects set.



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NL944D3

28 kW , 60 Hz @ 1800 RPM

AC Output¹

28 kW	60 Hz, 1800 RPM, 3 Ph, 0.8 PF,
	120/208V, 97A, opt.1 Ph: 240V, 117A
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

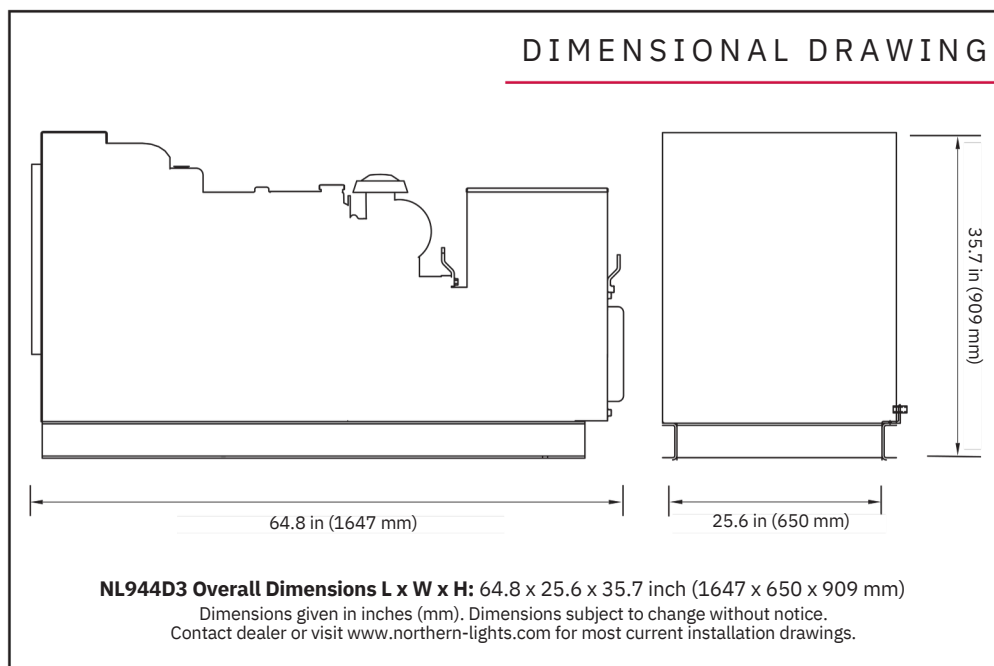
1800 RPM @ full load ²	2.5 gph (8.6 lph)
1800 RPM @ half load ²	1.5 gph (5.3 lph)

Installation Data & Weight

Exhaust outlet	2 inch (51mm)
Fuel inlet and return	1/4 inch NPT
Approximate dry weight	1316 lbs (600 kg)

- 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.

DIMENSIONAL DRAWING



NL944D3 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

- 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.

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 with load.
- Industry-best, transferrable warranty.

NOTE: Tier III Standby Emergency Duty Only (See NL944T3 spec sheet)



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NL944T3

36 kW , 60 Hz @ 1800 RPM

AC Output¹

36 kW	60 Hz, 1800 RPM, 3 Ph, 0.8 PF, 120-208V / 125A, 120V / 300A
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)

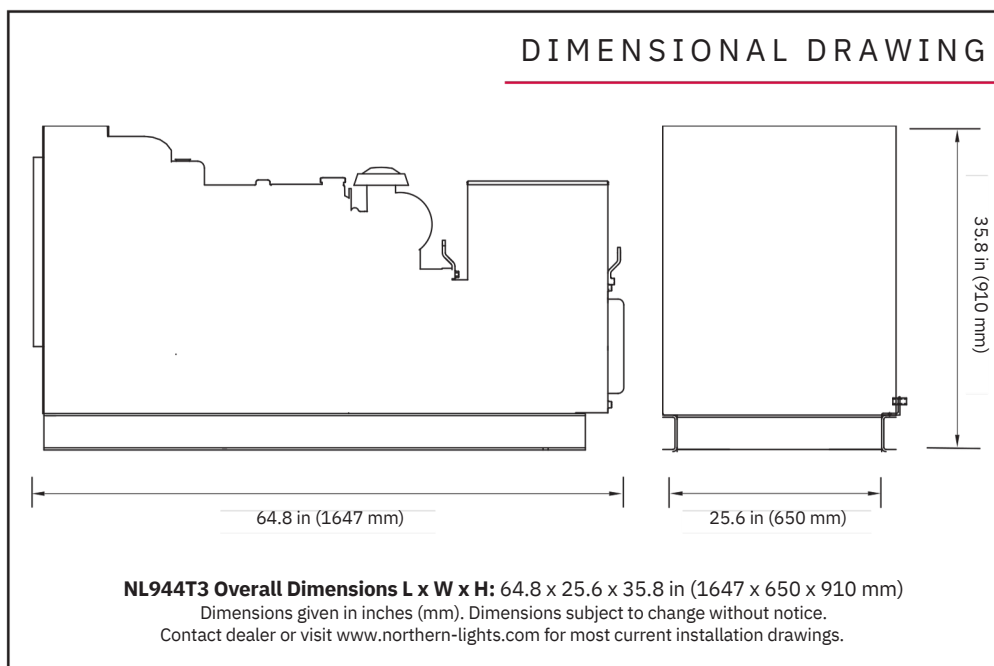
Installation Data & Weight

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

DIMENSIONAL DRAWING



NL944T3 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 interim Tier IV 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 airflow 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.

NOTE: Tier III Standby Emergency Duty Only

Information and dimensions subject to change without notice.

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