

## AC Output<sup>1</sup>

<b>5 kW</b>	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120-240 V/25A, 120 V/50A
<b>4.5 kW</b>	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 <sup>3</sup> (0.76 ltr)
Bore/Stroke	2.64/2.83 in (67/72 mm)
HP @ RPM	9.9/1800 7.7/1500

## Approx. fuel use

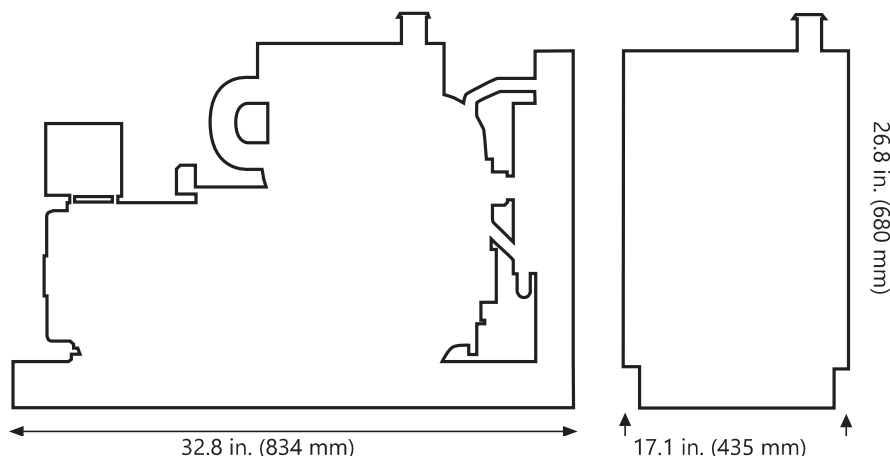
1800 RPM @ full load <sup>2</sup>	0.59 gph (2.2 lph)
1800 RPM @ half load <sup>2</sup>	0.32 gph (1.2 lph)
1500 RPM @ full load <sup>2</sup>	0.50 gph (1.9 lph)
1500 RPM @ half load <sup>2</sup>	0.28 gph (1.1 lph)

## 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)

- 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.

## 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](http://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 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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