

**M38C3FR****34 kW (60 Hz, 1800 rpm, 3ph)**

SPECIFICATIONS AND DIMENSIONS

AC Output¹

34 kW	60 Hz, 1800 RPM 3 Phase: 120/208 VAC, 118A 94 Amp, 3 Phase, unity P.F.
Phase/Power Factor	Std: 3/0.8 (Opt 1/1.0)
Voltage regulation	±1%

1. Based on SAE J1995 and ISO 3046.

Lugger L944T3F Engine Data

Type	Vertical inline 4 cylinder diesel
Displacement	203 in ³ (3.3 ltr)
Bore/Stroke	3.70/4.72 in (94/120 mm)
HP @ RPM	60/1800
Approximate fuel use ² :	
1800 RPM @ full load	3.26 gph (12.34 lph)
1800 RPM @ half load	1.6 gph (6.05 lph)

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

Installation Data

Dry exhaust elbow	3 inch (76 mm) OD
Fuel inlet	.35 in (9 mm) H.B.
Fuel return	.31 in (8 mm) H.B.

FEATURES AND BENEFITS

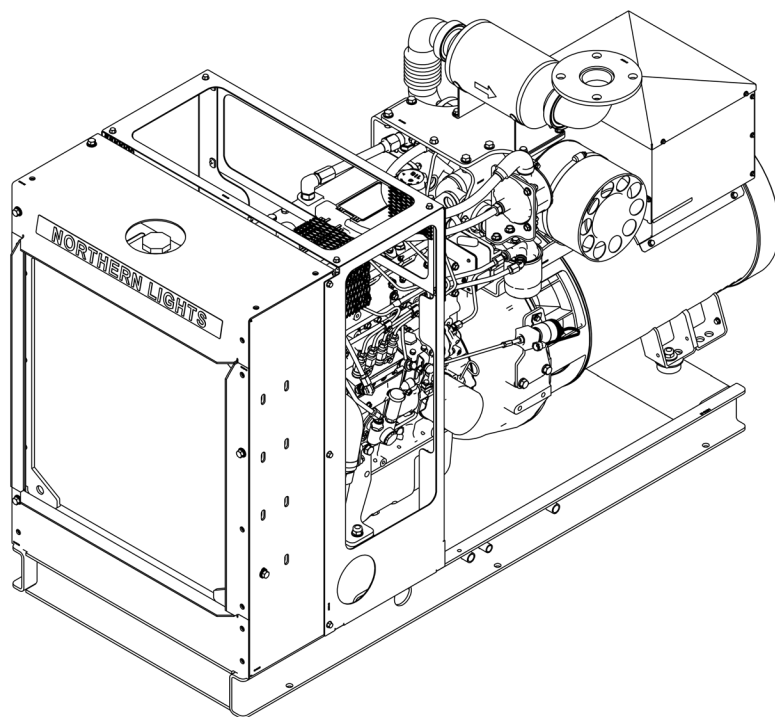
ENGINE BLOCK - Four cycle, 4 cylinder, liquid cooled, dry turbocharged overhead valve diesel. The induction hardened, forged carbon steel crankshaft is stronger than cast iron while the cross flow head makes for more efficient breathing. Helical cut and ground, carbon steel timing gear reduce noise.

COOLING SYSTEM - Liquid cooled with radiator and pusher fan. Radiator shroud and guard.

FUEL SYSTEM - Easy to service mechanical, direct injection fuel system. Spin on fuel filters with air bleed. Mechanical fuel transfer pump with manual priming plunger.

INTAKE & EXHAUST - The M38C3FR is fully compliant with the US EPA Tier III emission standards. Its dry air filter silences intake noise.

LUBRICATION SYSTEM - Full-flow, spin-on filter with bypass. 10.5 qt (10 ltr) center well oil pan. Closed crankshaft vent system keeps oil vapor inside engine room.



Weight and Height

Approximate dry weight	1700 lbs (771 kg)
Length	70.3 in (1786 mm)
Width	28.5 in (725 mm)
Height	41.0 in (1042 mm)

Information and dimensions are subject to change without notice.

DC ELECTRICAL SYSTEM - The DC system uses reliable relays instead of unrepairable circuit boards. 12 volt system includes circuit breaker, starter motor and alternator regulator.

CONTROLS - Standard flush mount S-3C control panel has hour meter, oil pressure gauge, coolant temperature gauge, DV voltmeter, stop-start switch and preheat switch. Expandable up to six panels, up to 110 feet from the set. Low oil pressure and high coolant temperature shutdowns are standard.

AC GENERATOR - The Northern Lights, direct coupled, four pole, twelve lead reconnectable generator has Class "H" insulation, a pre-lubricated bearing and features a conservative heat rise rating of 95°C/50°C ambient. Engines and generators are torsionally matched for long life. Automatic Voltage Regulator (AVR) gives quick +/-1% RMS no load to full load voltage regulation.

SPECIAL EQUIPMENT - Northern Lights Commercial Series gensets are made for the demands of the marine environment, with features including a rugged, welded steel base frame, captive vibration isolation mounts and a belt guard for operator protection.