



## SPECIFICATIONS AND DIMENSIONS

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

<b>25 KW</b>	60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120/240 V/104.1 A, 120 V/208.3 A
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<b>20 KW</b>	50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/90.9 A
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Reconnectable to	Three Phase with 0.8 PF
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Voltage regulation	±1%
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1. Based on SAE J1995 and ISO 3046.

### Weight and Height

Approximate dry weight	968 lbs (439 kg)
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Length	46.7 in (1187 mm)
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Width	21.6 in (549 mm)
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Height	26.6 in (677 mm)
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Sound enclosure weight	55 lbs (25 kg)
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Enclosure length	48.9 in (1243 mm)
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Enclosure width	25.0 in (635 mm)
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Enclosure height	27.8 in (706 mm)
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### Engine Data

Type	Vertical inline 4 cylinder diesel
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Displacement	152 in <sup>3</sup> (2.5 ltr)
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Bore/Stroke	3.40/4.20 in (86/107 mm)
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HP @ RPM	39/1800 33/1500
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Approximate fuel use <sup>2</sup>:

1800 RPM @ full load	2.23 gph (8.40 lph)
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1800 RPM @ half load	1.17 gph (4.40 lph)
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1500 RPM @ full load	1.78 gph (6.73 lph)
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1500 RPM @ half load	0.93 gph (3.52 lph)
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2. Actual fuel consumption will vary depending on operating conditions.

### Installation Data

Wet exhaust elbow	3 inch (76 mm) OD
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Raw water inlet	3/4 in (19 mm) OD
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Fuel inlet	5/16 - 37T JIC
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Fuel return	1/4 - 37T JIC
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**M864W3G**

**25 kW (60 Hz, 1800 rpm)**

**20 kW (50 Hz, 1500 rpm)**

## FEATURES AND BENEFITS

<b>Engine Block</b>	Four cycle, 4 cylinder, liquid cooled, naturally aspirated, overhead valve diesel with glow plugs for quick starting. The forged carbon-steel crankshaft is stronger than cast iron while the cross flow head makes for more efficient breathing. Helical cut gear train reduces noise.
<b>Cooling System</b>	Standard heat exchanger cooling with optional keel cooling. Copper-nickel, tube-type heat exchanger has removable end caps for easy cleaning. Electrolysis protection via zinc anode. The bronze and stainless steel seawater pump with rubber impeller is gear driven, eliminating a potential failure point.
<b>Fuel System</b>	The self-venting fuel system features an inline injection pump with 3-5% mechanical governor for close AC frequency control. The fuel lift pump is mechanical with a hand primer, eliminating electronic pump failures.
<b>Intake and Exhaust</b>	The M864W3 meets US EPA Tier III emission standards. Its cast aluminum intake manifold with Sound Maze system reduces noise, and its washable air cleaner makes routine maintenance simple. The wet exhaust elbow is stainless steel.
<b>Lubrication System</b>	The closed crankcase vent system traps oil vapor and keeps engine room clean. 6.9 qt (6.5 ltr) oil capacity for better lubrication and 200 hour oil change intervals. Oil drain hose with valve plumbed to base pan as standard.
<b>DC Electrical System</b>	The DC System features a 12 volt starter motor and battery charging alternator with belt guard. The set is equipped with a standard remote mount control panel, featuring an hour meter, stop-start switch, engine gauges, a preheat switch, and includes a 20 foot (6m) harness. The standard panel can be expanded to six panels, up to 110 feet from the set. Gauges include oil pressure, coolant temperature and DC Voltage. Low oil pressure, high coolant temperature and high exhaust temperature safety shutdowns standard.
<b>AC Generator</b>	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. Our automatic voltage regulator gives you ±1% voltage regulation. The AVR protected by a dedicated circuit breaker.

### Northern Lights, Inc.

4420 14th Ave NW, Seattle, WA 98107

Tel: (206) 789-3880 | (800) 762-0165

Fax: (206) 782-5455

info@northern-lights.com

[www.northern-lights.com](http://www.northern-lights.com)

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