



## SPECIFICATIONS AND DIMENSIONS

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

**25 KW** 60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 120/240 V/104.1 A, 120 V/208.3 A

**20 KW** 50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/90.9 A

Reconnectable to Three Phase with 0.8 PF

Voltage regulation ±1%

1. Based on SAE J1995 and ISO 3046.

### Weight and Height

Approximate dry weight 968 lbs (439 kg)

Length 46.7 in (1187 mm)

Width 21.6 in (549 mm)

Height 26.6 in (677 mm)

Sound enclosure weight 55 lbs (25 kg)

Enclosure length 48.9 in (1243 mm)

Enclosure width 25.0 in (635 mm)

Enclosure height 27.8 in (706 mm)

### Engine Data

Type Vertical inline 4 cylinder diesel

Displacement 152 in<sup>3</sup> (2.5 ltr)

Bore/Stroke 3.40/4.20 in (86/107 mm)

HP @ RPM 39/1800 33/1500

Approximate fuel use <sup>2</sup>:

1800 RPM @ full load 2.23 gph (8.40 lph)

1800 RPM @ half load 1.17 gph (4.40 lph)

1500 RPM @ full load 1.78 gph (6.73 lph)

1500 RPM @ half load 0.93 gph (3.52 lph)

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

### Installation Data

Wet exhaust elbow 3 inch (76 mm) OD

Raw water inlet 3/4 in (19 mm) OD

Fuel inlet 1/4 - NPT

Fuel return 1/4 - NPT



AVAILABLE FOR EXPORT ONLY. NON-US FLAGGED VESSELS ONLY

Consult factory for classification society.

Information and dimensions are subject to change without notice.

**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's 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.

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