



# Radiator Cooled Deck Mounted Generator Sets

## Features and Benefits

### 28-99 kW @ 60 Hz / 24-80 kW @ 50 Hz

Northern Lights' innovative line of deck mounted generator sets combine reliable radiator-cooled performance with the state of the art in marine power generation. Five units, with ratings from 24-99 kW provide sure-fire power.

The M944WR3 is based on a four-cylinder, four cycle Lugger diesel engine with Bosch type in-line fuel injection. It produces 28 kW (60Hz) of three phase power.

The naturally aspirated M1064DR is based on a four-cylinder, two-valve, diesel Lugger engine with easy to maintain rotary mechanical fuel injection. It produces 36kW (60Hz) of fail-safe power

The turbo-charged four-cylinder M1064T2R provides 60kW (60 Hz) of three phase power with rotary electronic fuel delivery.

The M1064HSR is based on a four-cylinder, turbo charged/ aftercooled Lugger diesel engine with HPCR fuel injection. It offers 99kW at 60 Hz.

The six-cylinder M1066TR is turbo charged with rotary electronic fuel injection to provide 99kW@ at 60 Hz.

All Northern Lights radiator-cooled marine generator sets are engineered to meet US EPA Tier II marine emission requirements. Shutdowns, pre-alarms and optional double-walled fuel lines are among the many features that promote long-life and steadfast durability.

Fully customizable and factory tested, Northern Lights ensures your sets' quality. Northern Lights' commonality of parts and simplified maintenance points assure that your deck mounted set can be serviced as easily and swiftly as your main sets.

Five decades of engineering and craftsmanship go into the Radiator Cooled Deck Mounted Generator Sets. You can rely on the complete marine solutions from Northern Lights.

## General Specifications and Dimensions

Application	M944WR3	M1064DR	M1064T2R	M1064HSR	M1066TR
<b>60 Hz, 1800 RPM*</b>	<b>28 kW</b>	<b>36 kW</b>	<b>60 kW</b>	<b>99 kW</b>	<b>99 kW</b>
<b>50 Hz, 1500 RPM*</b>	<b>24 kW</b>	<b>30 kW</b>	<b>50 kW</b>	<b>80 kW</b>	<b>80 kW</b>
Phase	3 ph (0.8 pf)	3 ph (0.8 pf)	3 ph (0.8 pf)	3 ph (0.8 pf)	3 ph (0.8 pf)
Frequency control	3-5% droop	3-5% droop	Isosynchronous 0%	Isosynchronous 0%	Isosynchronous 0%
<b>Lugger Marine Diesel Engine</b>					
Cylinders/ Configuration	4 in-line	4 in-line	4 in-line	4 in-line	6 in-line
Operating cycle	4 cycle	4 cycle	4 cycle	4 cycle	4 cycle
Displacement - cid (liter)	203 (3.3)	246 (4.5)	246 (4.5)	246 (4.5)	414 (6.8)
Aspiration	Natural	Natural	Turbo	Turbo/Aftercooled	Turbocharged
Bore - inches (mm)	3.70 (94)	4.19 (106)	4.19 (106)	4.19 (106)	4.19 (106)
Stroke - inches (mm)	4.72 (120)	5.00 (127)	5.00 (127)	5.00 (127)	5.00 (127)
SAE Housing	#4 Std	#4 Std	#4 Std	#3 Std	#2 Std
<b>Electrical System</b>					
Standard voltage	12	12	12	12	12
Minimum Battery capacity - CCA	640	640	640	640	800
24 Volt battery cable size	1/0	"00"	"00"	"00"	"00"
<b>Fuel System</b>					
Injection Pump type and control	Bosch type in-line injection	Rotary Mechanical	Rotary Electronic	HPCR	Rotary Electronic
Approx. fuel rate at full load - gal (ltr) @ 60 Hz	2.3 (8.70)	3.3 (12.45)	4.3 (16.27)	7.5 (28.38)	7.8 (29.52)
Specific Fuel Consumption	0.410	0.389	0.378	0.364	0.377
Minimum fuel suction line size, in (mm)	1/4 (6)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
<b>Dimensions and Weight</b>					
Length, inch (mm)	64.8 (1646)	82.0 (2083)	82.0 (2083)	86.5 (2197)	102.5 (2603)
Width, inch (mm)	25.6 (650)	31.0 (787)	31.0 (787)	30.5 (775)	37.4 (950)
Height, inch (mm)	35.7 (907)	43.0 (1092)	43.0 (1092)	52.2 (1326)	53.0 (1346)
Approx. set dry weight, lbs (kg)	1350 (612)	1900 (862)	2040 (926)	2900 (1316)	3904 (1636)

All specifications and dimensions are preliminary and are subject to change without notice.

\* kW ratings for 3 phase at 0.8 power factor. Consult factory for deration factors.

\*\* Consult factory fo 50 Hz rating

