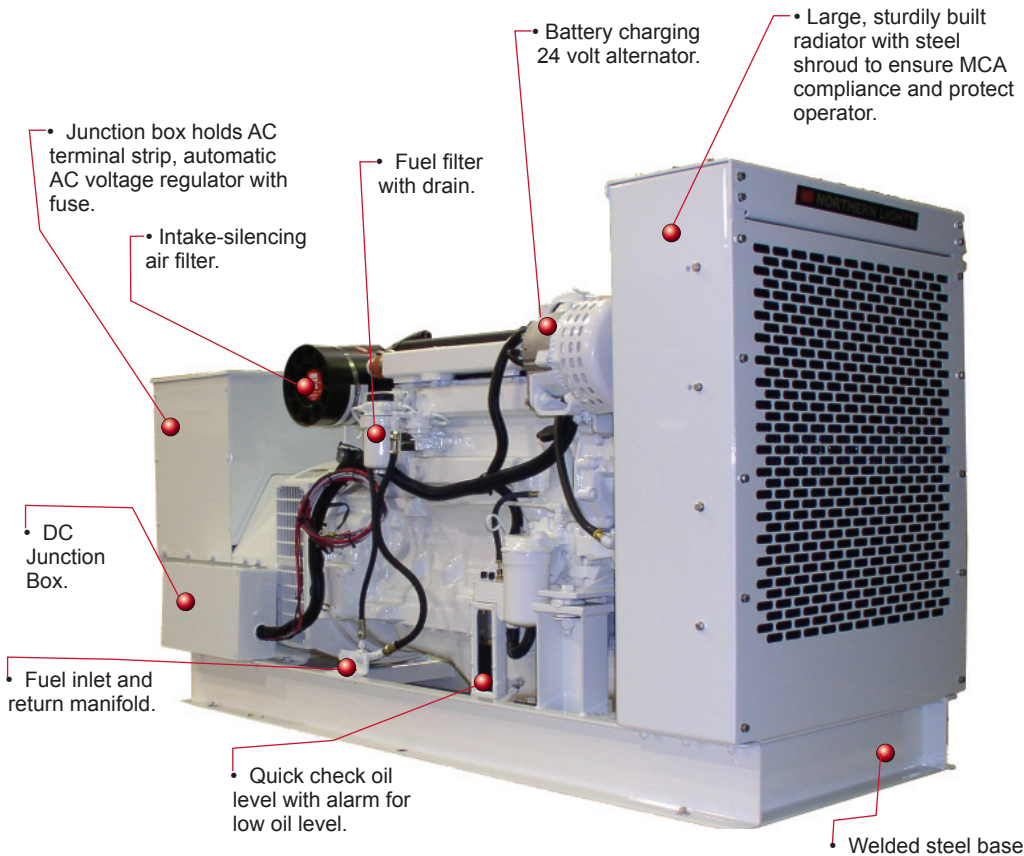


NORTHERN LIGHTS

MCA Compliant Emergency Generator Sets

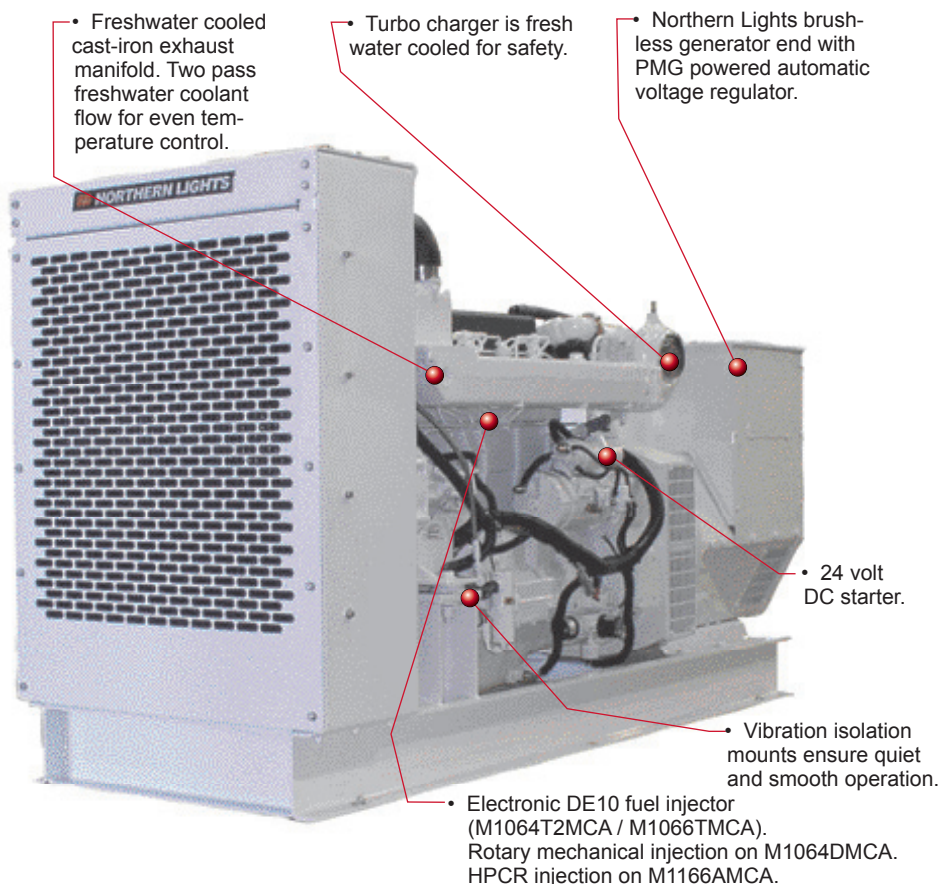
40 - 168 kW
60 Hz / 1800 RPM

33-143 kW
50 Hz / 1500 RPM



Service Side M1066TMCA Shown

Non-Service Side



Northern Lights' innovative emergency generator sets combine the peace of mind of full MCA-Compliance with the state of the art in marine power generation.

The naturally aspirated, mechanically fuel injected M1064DMCA is based on a four-cylinder, two-valve Luggier engine and produces 40kW (60Hz) or 33kW (50Hz).

The M1064T2MCA is based on a four-cylinder, two-valve Luggier diesel engine with DE-10 electronic fuel injection. It produces 60 kW (60Hz) or 50 kW (50Hz) of single or three phase power.

The M1066TMCA is based on a six-cylinder, two-valve diesel Luggier engine with DE-10 electronic fuel injection. It produces 99kW (60Hz) or 80kW (50Hz) of fail-safe emergency power

The six-cylinder four-valve M1166AMCA produces 168kW (60 Hz) or 143kW (50Hz) with high pressure common rail fuel delivery.

All machines are radiator-cooled and fully compliant to meet MCA regulations and 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. Electronic fuel injection on machines 50kW and up provides precise control of fuel delivery permitting more power and lower emissions.

Northern Lights MCA-Compliant Generator Sets are customizable and factory tested to ensure quality. Northern Lights' commonality of parts and simplified maintenance points ensure that your emergency set can be serviced as easily and swiftly as your main sets.

Five decades of engineering and craftsmanship go into the MCA-Compliant Series. This level of dedication provides total peace of mind in your yachting experience.



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Application	M1064DMCA	M1064T2MCA	M1066TMCA	M1166AMCA
60 Hz, 1800 RPM*	40 kW	60 kW	99 kW	168 kW
50 Hz, 1500 RPM*	33 kW	50 kW	80 kW	143 kW
Phase	3 ph (0.8 pf)	3 ph (0.8 pf)	3 ph (0.8 pf)	3 ph (0.8 pf)
Frequency control	Droop 3-5%	Isochronous 0%	Isochronous 0%	Isochronous 0%
Lugger Marine Diesel Engine				
Cylinders/ Configuration	4 inline	4 inline	6 inline	6 inline
Operating cycle	4 cycle	4 cycle	4 cycle	4 cycle
Displacement - cid (liter)	276 (4.5)	276 (4.5)	414 (6.8)	496 (8.16)
Aspiration	Natural	Turbo	Turbo	Turbo Aftercooled
Bore - inches (mm)	4.19 (106)	4.19 (106)	4.19 (106)	4.57 (116)
Stroke - inches (mm)	5.00 (127)	5.00 (127)	5.00 (127)	5.1 (129)
SAE Housing	#4 Std	#4 Std	#2 Std	#2 Std
Electrical System				
Standard voltage	24	24	24	24
Minimum Battery capacity - CCA	570	570	570	570
24 Volt battery cable size	"00"	"00"	"00"	"00"
Air and Exhaust Systems				
60 Hz Air Consumption - cfm (m ³ /m)	127 (3.6)	226 (6.4)	352 (9.2)	554 (15.7)
50 Hz Air Consumption - cfm (m ³ /m)	85 (2.4)	141 (4.0)	240 (6.8)	410 (11.6)
60 Hz Exhaust gas volume - cfm (m ³ /m)	357 (10.1)	618 (17.5)	851 (24.1)	1314 (37.2)
50 Hz Exhaust gas volume - cfm (m ³ /m)	251 (7.1)	508 (14.4)	600 (17)	1035 (29)
Exhaust gas temperature - F (C) @ 60 Hz	1089 (587)	1040 (560)	984 (529)	817 (436)
Exhaust gas temperature, F (C) @ 50 Hz	999 (537)	979 (511)	945 (507)	896 (480)
Maximum exhaust back pressure - inch H ₂ O (mm H ₂ O)	30 (762)	30 (762)	30 (762)	30 (762)
Fuel System				
Injection Pump type and control	Rotary Mechanical	Electronic DE10	Electronic DE10	Electronic HPCR
Approximate fuel rate at full load gal (ltr) @ 60 Hz**	3.29 (12.45)	6.01 (23.74)	7.9 (30)	13.3 (50.3)
Approximate fuel rate @ full load gal (ltr) @ 50 Hz**	2.74 (10.37)	4.31 (16.31)	6.35 (24)	11.0 (41.7)
Specific Fuel Consumption	0.389	0.378	0.377	0.362
Minimum fuel suction line size, in (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
Cooling System				
Engine coolant capacity - US gal (ltr)	5.5 (21)	5.5 (21)	6.5 (25)	6.5 (25)
Dimensions and Weight				
Length, inch (mm)	64 (163)	82 (2084)	94.1 (2390)	109 (2705)
Width, inch (mm)	31 (787)	31 (787)	34.2 (868)	46.1 (1171)
Height, inch (mm)	40.2 (1020)	43.0 (1092)	44.9 (1140)	59.8 (1578)
Approx. set dry weight, lbs (kg)	1900 (862)	2040 (925)	2910 (1320) @ 60 Hz	4300 (1374)

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.

** Based on kW rating at 1800 and 1500 RPM. Fuel rate may vary, depending on operating conditions.

Notes:

Dealer

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