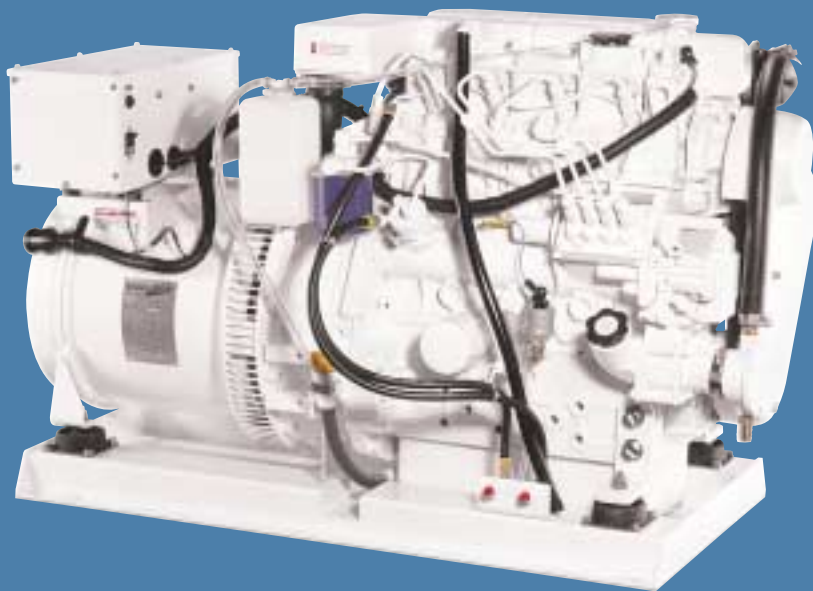


NORTHERN LIGHTS



M844K Marine Diesel Generator

Setting the pace in its class, the Northern Lights M844K provides unprecedented power, reliability, and fuel efficiency. This marine diesel generator performs so well that its smooth, responsive power is worthy of the most demanding marine applications.

With a naturally aspirated, powerful Lugger diesel, the M844K features optimum low-end torque that starts even large electric motors. At 1800 rpm (60 Hz) or 1500 rpm (50 Hz), the M844K delivers quiet and smooth operation as well as long-life dependability and outstanding fuel efficiency for your long-term enjoyment.

To reduce troublesome gaskets and hoses, the M844K's cast-iron exhaust manifold, expansion tank, and heat exchanger housing are combined into a single component, freshwater cooling system. The raw water pump's location makes impeller changes a snap, and it is gear-driven so there is no pump drive belt to fail.

Northern Lights' hassle-free DC Logic System continuously controls and monitors vital engine functions to provide unmatched reliability, protection, and easy, inexpensive service for technicians or crew. Low oil pressure, high exhaust temperature, and high coolant temperature safety shutdowns come standard. In addition, an automatic AC voltage regulator keeps voltage to $\pm 1\%$ to protect sensitive instruments and electronics.

The M844K includes a control panel with a 20-foot wire harness extension that lets you operate it from your boat's bridge. Service points are easy to reach since they are all located on one side for easy maintenance.

Features for comfort such as vibration isolation mounts, intake silencers, and cast valve covers make the M844K remarkably smooth and quiet. For added luxury, install an optional Northern Lights sound enclosure – the industry leader in noise attenuation technology.

16 kW

60 Hz / 1800 RPM

12 kW

50 Hz / 1500 RPM

STANDARD FEATURES

■ Engine Block

Four-cylinder, liquid cooled, naturally aspirated, overhead valve diesel. Swirl combustion chambers improve fuel efficiency and reduce smoke. Glow plugs for quick cold starting.

■ Cooling System

Freshwater cooling in heat exchanger or keel cooled configuration. One piece exhaust manifold, expansion tank, and heat exchanger housing. Cooling with cupro-nickel tube-type heat exchanger. Jabsco gear-driven raw water pump. Standard coolant recovery bottle.

■ Fuel System

Self-venting fuel system. Bosch-type injection pump with 5% mechanical governor. Pintle injectors with replaceable tips. Reliable mechanical fuel lift pump with hand primer. Large spin-on fuel filter. Flexible fuel lines routed to base. Fuel shut-off solenoid.

■ Intake and Exhaust

Cleanable dry-type air cleaner in cast aluminum, noise attenuating intake manifold. Cast-iron wet exhaust elbow.

■ Lubrication System

Full flow, spin-on oil filter with bypass. 8.6 quart, 8.2 liter oil capacity. Oil drain for quick, clean oil changes.

■ DC Electrical System

DC Logic System. 12-volt starter motor and battery charging alternator with integrated regulator and belt guard. Remote mount S-1B panel with hourmeter, stop-start switch with run light, and preheat switch. 20-foot (6 meter) plug-in wire harness. Low oil pressure, high exhaust temperature, and high coolant temperature safety shutdowns.

■ AC Generator

Reliable and robust brushless 50 or 60 Hz direct coupled AC generator rated at 90° C rise. 4 lead/1 phase, 50 or 60 Hz AC power output. Skewed stator, accessible diodes, and oversized bearing. Voltage regulated to $\pm 1\%$ no load to full load. AVR circuit breaker overload protection.



M844K Marine Diesel Generator



16 kW
60 Hz / 1800 RPM

12 kW
50 Hz / 1500 RPM

OPTIONS & ACCESSORIES

- Sound Enclosure
- Front PTO
- Additional Control Panels
- Wire Harness Extensions
- Wet Exhaust Muffler
- Exhaust / Water Separator
- Dry Exhaust
- Onboard Parts Kits
- 24-Volt System
- Isolated Ground DC Electrical Systems
- Fuel Filter / Water Separators
- Fuel Line Kits for Inspected Vessels
- Shorepower Switches
- Overspeed Shutdowns

PROVEN QUALITY



Lloyd's Register Type Approval is a rigorous testing process and design review, which confirms the M844K is built to the

highest design, manufacturing, materials, and quality control standards.

WARRANTY & SUPPORT

This generator is backed by an unmatched, transferable global warranty. Northern Lights' worldwide dealer network is more than 300 strong, and Northern Lights' helpful dealers offer parts, accessories, and service in more than 40 countries. Visit our web site at www.northern-lights.com to locate the dealer nearest you.

60 Hz / 1800 rpm ¹	16 kW
50 Hz / 1500 rpm ¹	12 kW
Phase	1 standard (3 optional)
Power Factor	1.0 standard (0.8 @ 3 phase)
Volts/Amps (60 Hz)	120-240V / 66.6A
	120V / 133A
Volts/Amps (50 Hz)	220V / 54.4A
	110V / 109A
Voltage Regulation	±1%

ENGINE DATA

Type	Vertical Inline Diesel
Aspiration	Natural
Cylinders	4
Bore	3.30 in (84 mm)
Stroke	3.50 in (90 mm)
Displacement	121 cid (1.9 ltr)
Horsepower	26.0 hp @ 1800 rpm
	19.5 hp @ 1500 rpm

APPROX. FUEL RATE

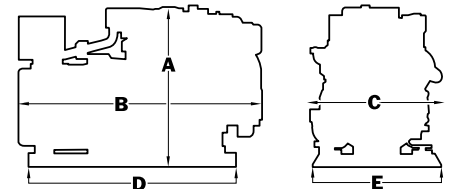
1800 rpm / full load ²	1.4 gph (5.2 lph)
1800 rpm / half load ²	0.83 gph (3.1 lph)
1500 rpm / full load ²	1.05 gph (3.97 lph)
1500 rpm / half load ²	0.62 gph (2.35 lph)

NOTES:

1. Based on SAE J1995 and ISO 3046.
2. Actual fuel consumption varies depending on operating conditions.

DIMENSIONAL DATA

A - Height	26.7 in (679 mm)
B - Length	42.0 in (1068 mm)
C - Width	19.3 in (490 mm)
D - Base Length	36.5 in (927 mm)
E - Base Width	19.3 in (490 mm)
Approx. Dry Weight	890 lbs (403 kg)



INSTALLATION DATA

Wet Exhaust Elbow	2 in (51 mm) OD
Raw Water Inlet	3/4 in (20 mm) OD
Fuel Inlet & Return	1/4 in NPT

Standard Panel:
Remote mount S-1B includes hourmeter, stop-start switch with run light, and preheat switch.



Sound Enclosure Dimensions – Length x Width x Height:
49.9 in x 27.2 in x 29.8 in (1267 mm x 691 mm x 757 mm)

ENGINEERED FOR SILENCE

With a newly refined line-up of sound enclosures, experience why Northern Lights continuously raises marine industry standards. Dual sound-dampening barriers ensure optimum sound absorption, and damper-sheet-coated internal air ductings keep your generator quiet and cool. Easy-to-use trigger latches allow quick access and easy maintenance. The construction features rigid, powder-coated aluminum for an extraordinarily robust, corrosion-resistant enclosure that compliments any engine room. For the quietest and most reliable power in the marine industry, choose Northern Lights.



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