If it’s a powerful, feature-packed generator in an efficient, compact package you need, then the Northern Lights M843JK is for you. This reliable marine diesel generator offers you the world-class quality and unmatched performance of Northern Lights in a powerful, dependable configuration.

At 1800 rpm (60 Hz) or 1500 rpm (50 Hz), the M843JK’s naturally aspirated Lugger diesel engine provides the torque and efficiency necessary for today’s loads. A smooth-running diesel operating at a lower rpm means less wear and tear for longer engine life with the trusted reliability of the Northern Lights name.

With a combined cast-iron exhaust manifold, expansion tank, and heat exchanger housing, the M843JK is engineered to eliminate unnecessary gaskets, hoses, and clamps. Moreover, Northern Lights’ advanced DC Logic System is the reliable, robust, and hassle-free engine control and monitoring system – it features four interchangeable and inexpensive relays that make repairs effortless.

The brushless generator end includes class H insulation throughout and an epoxy coating to endure harsh marine elements. A 90°C heat rise rating ensures consistent power delivery even in the warmest environments. And an automatic voltage regulator keeps voltage to ±1% to protect sensitive instruments and electronics.

Maintenance is quick and easy. The single-side servicing feature places all regular maintenance points right at your fingertips on one side of the engine. The self-venting fuel system and mechanical fuel lift pump provide ultimate reliability without depending on electrical components.

The M843JK comes with a 12-volt electrical system, rigid steel base with drip pan, and control panel with 20-foot wire harness extension. Other standard features include low oil pressure, high exhaust temperature, and high coolant temperature safety shutdowns. Options include Northern Lights’ industry leading sound enclosure, additional instrument panels, and many other accessories to make it perfect for any vessel.
M843JK
Marine Diesel Generator

60 Hz / 1800 rpm

<table>
<thead>
<tr>
<th>Power</th>
<th>10 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz / 1500 rpm</td>
<td>8 kW</td>
</tr>
<tr>
<td>Phase</td>
<td>1 standard (3 optional)</td>
</tr>
<tr>
<td>Power Factor</td>
<td>1.0 standard (0.8 @ 3 phase)</td>
</tr>
<tr>
<td>Volts/Amps</td>
<td>120-240V / 41.6A (60 Hz)</td>
</tr>
<tr>
<td>Voltage Regulation</td>
<td>±1%</td>
</tr>
</tbody>
</table>

50 Hz / 1500 rpm

<table>
<thead>
<tr>
<th>Power</th>
<th>1500 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 kW</td>
<td>1</td>
</tr>
<tr>
<td>60 Hz / 1800 rpm</td>
<td>1</td>
</tr>
<tr>
<td>1 standard (3 optional)</td>
<td>1.0 standard (0.8 @ 3 phase)</td>
</tr>
<tr>
<td>120V / 83.3A (60 Hz)</td>
<td>220V / 36.3A (50 Hz)</td>
</tr>
</tbody>
</table>

**ENGINE DATA**

- **Type**: Vertical Inline Diesel
- **Aspiration**: Natural
- **Cylinders**: 3
- **Bore**: 3.30 in (84 mm)
- **Stroke**: 3.20 in (80 mm)
- **Displacement**: 81 cid (1.33 ltr)
- **Horsepower**: 17.5 hp @ 1800 rpm
- **14.0 hp @ 1500 rpm**

**APPROX. FUEL RATE**

- 1800 rpm / full load: 1.1 gph (4.2 lph)
- 1800 rpm / half load: 0.56 gph (2.1 lph)
- 1500 rpm / full load: 0.88 gph (3.33 lph)
- 1500 rpm / half load: 0.45 gph (1.70 lph)

**DIMENSIONAL DATA**

- A - Height: 24.2 in (616 mm)
- B - Length: 36.6 in (929 mm)
- C - Width: 19.3 in (490 mm)
- D - Base Length: 31.2 in (792 mm)
- E - Base Width: 19.3 in (490 mm)
- Approx. Dry Weight: 659 lbs (299 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

**NOTES:**

2. Actual fuel consumption varies depending on operating conditions.

**OPTIONS & ACCESSORIES**

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

**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.

**PROVEN QUALITY**

Lloyd's Register Type Approval is a rigorous testing process and design review, which confirms the M843JK 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.

4420 14th Avenue NW
Seattle, WA 98107
Phone: 206-789-3880
Fax: 206-782-5455
Toll-Free: 800-762-0165

www.northern-lights.com

Northern Lights generators and Lugger marine diesels are manufactured by Alaska Diesel Electric, Inc. Information, specifications, materials, drawings, and dimensions are all subject to change without notice. Litho in U.S.A. © 2002 Alaska Diesel Electric, Inc. All rights reserved. LG22