These are the powerhouses that go in vessels that need continuous AC power to operate. Unfortunately, some 20 kW machines have small displacement, light duty diesels that can’t stand up to heavy use. Some even need turbochargers to compensate for their small displacement.

The M844LW2 is different. Powered by a naturally aspirated, four cylinder, 2.2 liter (135 cid) Lugger diesel, this set has the low end torque needed to start bigger electric motors without breaking a sweat.

The M844LW2 meets US EPA Tier II emission standards to protect the environment you enjoy.

Vibration isolation mounts, air intake silencer and cast manifolds make the set remarkably smooth and quiet. A high attenuation sound enclosure is optional.

Northern Lights generator sets are simple to operate and maintain. A 20 foot wire harness and control panel lets you operate it from your boat’s bridge. The engine’s DC electrical system uses reliable relays instead of delicate printed circuit boards. If a failure should occur, you can simply plug in an inexpensive relay. All service points are on one side within easy reach. The sea water pump is up front for easy impeller changes.

Need hydraulic power? Add an optional electric clutch front PTO. At the touch of a button you have power for your bow thruster and winches without starting your main engine.

Featuring new W-Series generator

The new W-Series generator end is a major step in our constant quest to give you the best generator set on the market. It features an auxiliary stator winding that supplies separate and stable power to the Automatic Voltage Regulator (AVR). The results are impressive:

- Classification society compliance.
- Real 300% short circuit capability.
- Improved AC circuit breaker performance.

See your dealer for more information.
M844LW2 - 20 kW/16 kW Specifications and Dimensions

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<th>AC Output</th>
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<tr>
<td>20 kW</td>
<td></td>
<td></td>
<td>60 Hz, 1800 RPM, 1 Ph, 1.0 PF, 60°C</td>
<td>Vertical inline 4 cylinder diesel</td>
<td>135 in³ (2.2 ltr)</td>
<td>3.30/3.90 in (64/100 mm)</td>
<td>1.7 gph (6.5 lph)</td>
<td>Full flow, spin-on oil filter with bypass.</td>
<td>Freshwater cooling system in heat exchanger or keel cooled configuration.</td>
<td>DC system uses reliable relays instead of unrepairable printed circuit board.</td>
<td>Full flow, spin-on oil filter with bypass.</td>
<td>Four cycle, 4 cylinder, liquid cooled, naturally aspirated, overhead valve diesel.</td>
<td>Generator features high quality Class “H” epoxy insulation, accessible diodes, over-sized bearing and junction box for wiring.</td>
</tr>
<tr>
<td>16 kW</td>
<td></td>
<td></td>
<td>50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 60°C</td>
<td></td>
<td></td>
<td></td>
<td>1.0 gph (3.9 lph)</td>
<td>Fuel system is self-venting.</td>
<td>One-piece heat exchanger, expansion tank and liquid cooled exhaust manifold.</td>
<td>12 volt starter motor and battery charging alternator with regulator and belt guard.</td>
<td>8.6 qt. (8.2 ltr) oil capacity for better lubrication.</td>
<td>Swirl combustion chambers improve fuel efficiency and reduce smoke.</td>
<td>Generator features high quality Class “H” epoxy insulation, accessible diodes, over-sized bearing and junction box for wiring.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Three Phase with 0.8 PF</td>
<td>240 V/72.7 A</td>
<td>50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 60°C</td>
<td></td>
<td></td>
<td>1.36 gph (5.2 lph)</td>
<td>Injection pump with 5%</td>
<td>One-piece heat exchanger, expansion tank and liquid cooled exhaust manifold.</td>
<td>Standard panel:</td>
<td>Oil drain for quick, clean oil changes.</td>
<td>Full flow, spin-on oil filter with bypass.</td>
<td>Four cycle, 4 cylinder, liquid cooled, naturally aspirated, overhead valve diesel.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>±1%</td>
<td>240 V/72.7 A</td>
<td></td>
<td></td>
<td></td>
<td>0.8 gph (3.0 lph)</td>
<td>Fuel system is self-venting.</td>
<td>One-piece heat exchanger, expansion tank and liquid cooled exhaust manifold.</td>
<td>Expanded to six</td>
<td>Crankcase vapor trap for clean engine room.</td>
<td>Full flow, spin-on oil filter with bypass.</td>
<td>Swirl combustion chambers improve fuel efficiency and reduce smoke.</td>
</tr>
</tbody>
</table>

**AC Generator**
- Northern Lights, direct coupled, brushless, AC generator is maintenance free. Four lead, 1 phase or 60 Hz output standard. 12 lead-3 phase optional. Conservative heat rise rating: 95°C/50°C ambient.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 300% short circuit capability. Quick ±1% RMS no load to full load voltage regulation. AVR has circuit breaker protection.
- Generator features high quality Class “H” epoxy insulation, accessible diodes, over-sized bearing and junction box for wiring.

**Special Equipment**
- Welded steel base frame with drip pan.
- Four platform mounts isolate vibration.
- White, long-life polyurethane paint.
- Operator’s and parts manuals standard.

**Classification Standards**
- Contact factory for details.

**Optional Equipment**
- See separate option brochure for details.
- Front power take off with electric clutch.
- Control panels with DC and AC gauges.
- 24 volt DC isolated or standard ground.
- Wire harness extensions and “Y” harness.
- 2 inch wet exhaust muffler.
- Exhaust / water separator.
- Keel cooling configuration.
- Alarms and shutdowns for low oil level, low coolant level, raw water flow and overspeed.
- Dry exhaust elbow.
- Onboard parts kits.
- Fuel filter-water separators.
- Shorepower switches.
- Sound enclosure has powder coated marine aluminum panels lined with sound barrier foam to dampen noise. Trigger latches for easy service access.