**NORTHERN LIGHTS**

**M753W**

**8 kW**
- 60 Hz / 1800 RPM
- 6 kW
- 50 Hz / 1500 RPM

**Proof That Even The Best Can Be Improved.**

Much of the Northern Lights reputation for reliability and simplicity is based on the 8 kW, M753. Year in, year out, this bulletproof workhorse has been a favorite for yachtsmen and commercial operators for both repowers and new vessel construction. It has consistently been improved and we are now proud to introduce the newest version: the M753W.

1000 RPM Luger Diesel

The set is still powered by a 58 cubic inch Luger diesel which runs at 1800 rpm instead of 3600. Lower speed promotes engine life by reducing internal stresses.

The engine has a mono-component, cast iron, freshwater cooling system to reduce troublesome gaskets and hoses.

**Smooth And Quiet.**

Being a three cylinder, the engine is balanced for smooth operation. This along with vibration isolation mounts, intake silencer system and cast valve cover make the M753W remarkably smooth and quiet. There is no sound enclosure.

**Simple To Operate.**

The M753W is simple to maintain.

All service points are on one side within easy reach. The seawater pump's location makes impeller changes a simple task, not a difficult one.

The engine's DC electrical system and safety shuttows use reliable relays instead of delicate, unreliable printed circuit boards. No failure should occur if you simply plug in a new, inexpensive relay.

The M753W, being the best never goes out of style.

**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 complience.
- Real 300% short circuit capability.
- Improved AC circuit breaker performance. See your dealer for more information.
M753W Specifications and Dimensions

**AC Output**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>8.0 kW</td>
<td>60 Hz, 1500 RPM, 1 Ph, 1.0 PF, 120-240 V/33 A, 120 V/60 A</td>
</tr>
<tr>
<td>6.5 kW</td>
<td>50 Hz, 1500 RPM, 1 Ph, 1.0 PF, 220 V/27 A</td>
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Optional: Three Phase with 0.8 PF, Voltage regulation 1%

**Lugger L63 Engine**

- **Type**: Vertical inline 3 cylinder diesel
- **Displacement**: 58 l (3.61 ft³)
- **Bore x Stroke**: 2.35 x 6.3 in (59.7 x 160 mm)
- **HP @ RPM**: 13.5 @ 1000 |
- **Approx. Fuel Use**:
  - 1800 RPM @ Full Load: 0.94 gph (3.5 l/h)
  - 1800 RPM @ Half Load: 0.52 gph (1.9 l/h)
  - 1500 RPM @ Full Load: 0.77 gph (2.9 l/h)
  - 1500 RPM @ Half Load: 0.35 gph (1.3 l/h)

**Installation Data & Weight**

- Wet exhaust elbow: 2.0 inch (51 mm) OD
- Raw water inlet: 3/4 inch (19 mm) OD
- Fuel line and return: 1/4 inch NPT
- Approximate dry weight: 539 lbs (240 kg)

*Based on SAE J1349 and ISO 8893. 2. Inlet fuel consumption will vary depending on operating conditions.*

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**M753W Features and Benefits**

**Engine Block**
- Four cylinder, 3 cylinder, liquid cooled, naturally aspirated, overhead valve diesel.
- SAE certification ensures improved fuel efficiency and reduce smoke.
- Goes plug for quick cold starting.

**Fuel System**
- Freshwater cooling in heater exchanger or keep cooling configuration.
- One-piece heater exchanger, expansion tank and liquid cooled exhaust manifold. Fewer rubber hoses and gaskets. Cast iron to resist corrosion and electrolysis.
- Heat exchanger is standard. Tubing, supervised heat exchanger has removable ends for easy cleaning. Accessible, gear driven, rubber impeller water pump of bronze and stainless steel. No belt.

**AC Electrical System**
- DC system uses reliable rectify instead of unreliable printed circuit board.
- 12 volt starter motor and battery charging alternator with regulator and belt guard.
- Standard panel:
  - Remote mount
  - S-18 has hour meter, stop start switch, run light and protective switch.
  - Expandable to 6 panels up to 110 feet from the set.
- 20 foot (6 m) plug in panel harness into you mount your panel anywhere onboard. Better than inaccessible unit mount panels that are prone to vibration.
- Low oil pressure, high coolant temperature, and high exhaust temperature safety shutdown standby

**AC Generator**
- Northern Lights direct coupled, brushless. AG generator is maintenance free. 4 lead-1 phase 50 or 60 Hz output speeded. 12 lead-1 phase optional. Consistently heat rise rating 85°C/50°C ambient.
- Automatic Voltage Regulator is powered by dedicated AC winding for true 30% short circuit capability. Quick 1 % RMS no load to full load voltage regulation. AVR has circuit breaker protection.

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

**Classifications / Standards**
- Contact factory for details.

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**M753W - 8 kW/6 kW**

**Overall Dimensions**
- L x W x H: 32.48 x 19.17 x 23.7 inch (824 x 487 x 602 mm)

**Contact Dealer or visit www.northern-lights.com for most current installation drawings.**