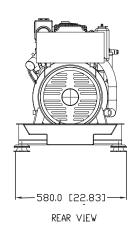
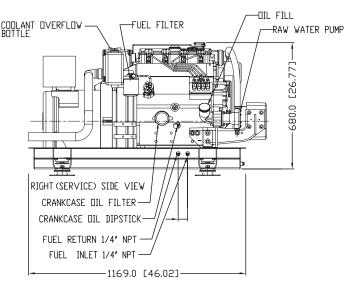
Dimensional Drawing



M844W3 - 16 kW/12 kW

AC Output ¹		
16 kW	60 Hz, 18	00 RPM, 1 Ph, 1.0 PF,
120-240 V/66.6 A, 120 V/133 A		
12 kW	50 Hz, 15	000 RPM, 1 Ph, 1.0 PF,
		220 V/54.4 A
Optional	Three Phase with 0.8 PF	
Voltage regulation		±1%
Lugger L844-3 Engine		
Туре	Vertical	inline 4 cylinder diesel
Displacemen	t	121 in ³ (1.9 ltr)
Bore/Stroke	3	.30/3.50 in (84/90 mm)
HP @ RPM		26/1800 19.5/1500
Approximate fuel use		
1800 RPM @ full load ²		1.40 gph (5.20 lph)
1800 RPM @ half load ²		0.83 gph (3.10 lph)
1500 RPM @ full load ²		1.05 gph (3.97 lph)
1500 RPM @ half load ²		0.62 gph (2.35 lph)
Installation Data & Weight		
Wet exhaust elbow		2 inch (51 mm) OD
Raw water inlet		3/4 inch (19 mm) OD
Fuel inlet and return		1/4 inch NPT
Approximate dry weight		876 lbs (397 kg)
Based on SAE J1995 and ISO 3046. Actual fuel consumption will vary depending on operating conditions		





M844W3 Overall Dimensions L x W x H: 46.0 x 22.8 x 26.7 inch (1169 x 580 x 680 mm) **Sound Enclosure Dimensions L x W x H:** 46.0 x 22.8 x 28.1 inch (1169 x 580 x 714 mm) **Sound Enclosure Weight:** 79 lbs. (35.8 kg)

Dimensions given in inches (mm). Dimensions subject to change without notice. Contact dealer or visit www.northern-lights.com for most current installation drawings.

Engine Block

- Four cycle, 4 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 system in heat exchanger or keel cooled configuration.
- One-piece heat exchanger, expansion tank and liquid cooled exhaust manifold. Fewer troublesome hoses and gaskets. Cast iron to resist corrosion and electrolysis.
- Heat exchanger cooling is standard. Cupro-nickel tube-type heat exchanger has removable ends for easy cleaning. Rubber impeller seawater pump of bronze and stainless steel is gear driven; no belt.

Fuel System

- · Fuel system is self-venting.
- Injection pump with 5% mechanical governor for close AC frequency control.
- · Pintle injectors with replaceable tips.
- Mechanical lift pump with hand primer. No electric pump to fail.
- · Large spin-on fuel filter.
- · Flexible fuel lines routed to fuel manifold.
- Stop solenoid controls the fuel rack, not the throttle, to eliminate speed variances and linkage problems.

Intake and Exhaust

- Meets US EPA Tier III emission standards at date of manufacture
- · Washable air cleaner in cast intake manifold reduces intake noise.
- Cast iron, wet exhaust elbow for safety.

Lubrication System

- · Full flow, spin-on oil filter with bypass.
- 8.6 gt (8.2 ltr) oil capacity for better lubrication. 200 hour oil change intervals.
- · Oil drain for quick, clean oil changes.
- Closed crankcase vent system traps oil vapor and keeps engine room clean.

DC Electrical System

- DC system uses reliable relays instead of an unrepairable printed circuit board.
- 12 volt starter motor and battery charging alternator with regulator and belt guard.
- Standard panel: Remote mount S-1B has hour meter, stop-start switch with run light and preheat switch.
- Expandable to six panels up to 110 feet from the set.
- 20 foot (6m) plug-in panel harness lets you mount your panel anywhere onboard. Better than inaccessible unit mount panels that are prone to vibration problems.
- Low oil pressure, high coolant temp and high exhaust temp safety shutdowns standard.

AC Generator

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



Special Equipment

- · Welded steel base frame with drip pan.
- · Four plateform mounts isolate vibration.
- White, long-life polyurethane paint.
- Operator's and parts manuals standard.

Classification Standards

Consult factory for details.



M844W3 Features and Benefits

www.northern-lights.com

Northern Lights, Inc. • 4420 14th Ave. NW., • Seattle WA 98107 Tel: 206-789-3880 • 1-800-762-0165 • Fax: 206-782-5455 Information and dimensions subject to change without notice.

Northern Lights and Lugger are registered trademarks of Northern Lights, Inc. © 2012 All rights reserved. Litho USA. S105 5/12