



Fully networked to NMEA 2000®

PRELIMINARY

Images Unavailable

22.0/17.0 EDEA Marine Diesel Generator

The First Electronic Diesel Generators NMEA 2000® Certified

Westerbeke D-NET™ electronic generators are equipped with standard NMEA 2000® compliant databus communication. NMEA 2000® is a network for shipboard communications developed under National Marine Electronics Association (NMEA) standards. NMEA 2000® generators, combined with other certified components, allow boat builders and their customers to significantly reduce the cost, weight and space normally required to run cables throughout the vessel. All certified components freely communicate and are linked to just one NMEA 2000® cable using “T” connections that simplify networking.

Quiet, Slow-Speed Digital Operation

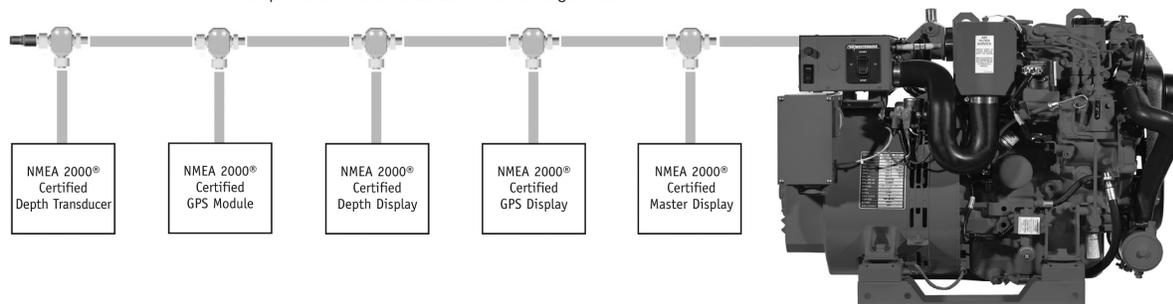
Operating at 1800-rpm with a newly designed, tuned air intake silencer and 4-cylinder engine, the 22.0 EDEA generator runs smooth and quiet. Augmenting this desired effect is the electronic governing that virtually eliminates “droop” when load is applied. Include the optional Sound Guard SST with high quality stainless steel base and frame with stylish powder coated aluminum panels and you have a generator as attractive as it is quiet.

22.0/17.0 EDEA Marine Diesel Generator

Standard Features

- NMEA 2000® compliant databus communication
- Start/stop and safety stop switch
- Electronic governing
- Electronic voltage regulation
- Safety shut-downs: overspeed, underspeed, low oil pressure, high exhaust and high coolant temperature
- Field breaker
- 40 amp battery charging alternator
- Power take-off interface
- “EZ bleed” fuel system
- Fresh water cooling and coolant recovery tank
- 45 degree water injected exhaust elbow
- Gear driven raw water pump
- Tuned air intake silencer
- Anti-vibration mounts – fail safe rubber type
- Lube oil drain hose and drip tray
- Oil fill – top
- Belt guard
- Operators’ Manual and parts list
- 5-year limited warranty
- Meets CARB & U.S. EPA regulations

Sample network with NMEA 2000® certified generator



Generator Design

DESIGN: Brushless, four pole, revolving, power take-off.
VOLTAGE REGULATION: Standard +/- 2% no load to full load.
FREQUENCY REGULATION: .3 Hz (.50%) no load to full load.
INSULATION: Class "H", as defined by NEMA MG1-1.65.

TEMPERATURE RISE: Within NEMA MG1-22.40 definition when operating at full load.
COOLING: Cast centrifugal blower, direct connected.
ELECTROMAGNETIC INTERFERENCE LEVEL: Exceeds requirements for most marine radio-telephones and standard TVs.

Model	Electrical Characteristics					Ratings		Engine	
	Volts	Amps	Hertz	Phase	Wire	Power Factor	KW	RPM	Start
22.0 EDEA-614*	120/240	183.3/91.7	60	1	4	1.0	22.0	1800	Remote
17.0 EDEA-514*	230	73.9	50	1	4	1.0	17.0	1500	Remote

* Adjustable to 50 or 60 Hertz. Three phase units available in these ratings.

Specifications

Number of cylinders	4 cylinder vertical in-line
Type	4 cycle
Displacement	148.5 cu. in. (2.43 liter)
Bore and stroke	3.43" x 4.03" (87.0 mm x 102.4 mm)
Compression ratio	22:1
Rated rpm	60 Hz - 1800 rpm 50 Hz - 1500 rpm
HP @ 1800/1500 rpm	36/30
Maximum angle of operation	Not to exceed 20° in all directions
Exhaust elbow connection	3" OD (76.2 mm)
Sea water connection	1" OD (25.4 mm)
Dry weight	864 lbs. (392 kilos)
Combustion system	Indirect injection
Aspiration	Naturally aspirated
Lubrication system	Forced lubrication by gear pump
Cooling system	6 quarts (5.7 liters)
Starting aid	12 volt sheathed type glow plug
Full load fuel consumption @ 1800rpm	2.1 gal/hr (7.95 l/hr) (approx.)
Full load fuel consumption @ 1500rpm	1.7 gal/hr (6.28 l/hr) (approx.)
Fuel injection pump	Bosch type mini pump
Governor	Electronic
Injectors	Bosch type
Fuel Filter	Full flow, replaceable element
Fuel transfer pump	12 volt electric type
Fuel supply and return piping	1/4" ID (6.35 mm) minimum 3/8" ID (9.53 mm) maximum

Lube oil filter	Full flow, spin-on element
Lubricant capacity (incl. filter)	8 quarts (7.6 liters)
Starting motor	12 volt, solenoid, actuated shift
Alternator	40 amps
Cold cranking amps	400-600 amps (includes heater)
Electrical system	12 volts DC, negative ground

Construction – Engine Components

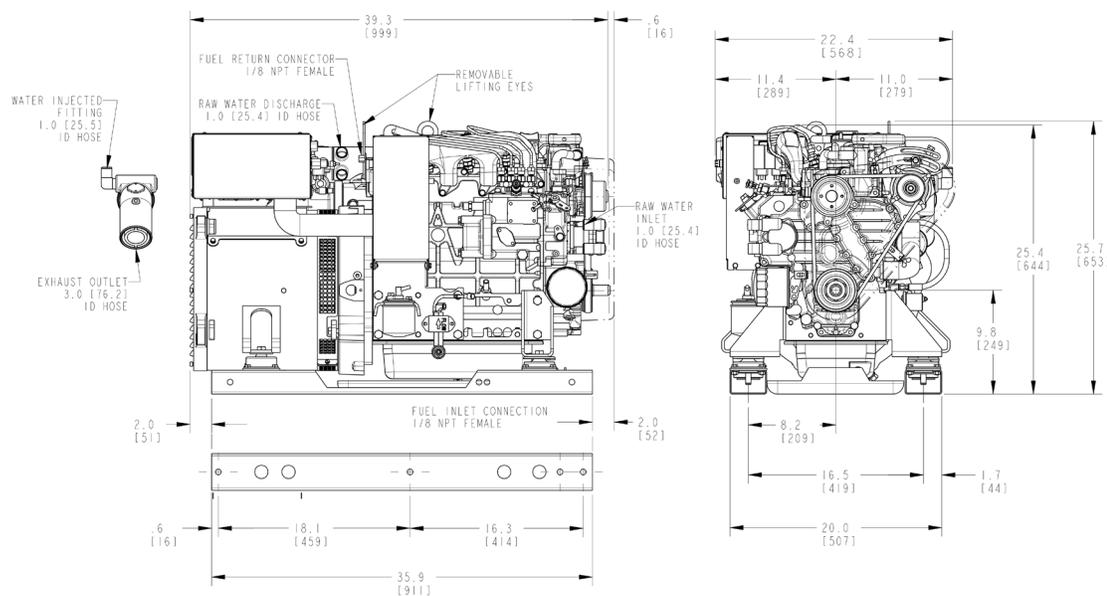
Cylinder head	Cast Iron
Cylinder block	Cast Iron
Crankshaft	Forged crankshaft, five main bearings
Valves	Overhead valves
Fuel System	"EZ-Bleed"
Intake system	Tuned intake system for maximum noise reduction
Cooling system	Fresh water-cooled with heat exchanger
Exhaust manifold	Cast aluminum, fresh water-cooled

Optional Equipment

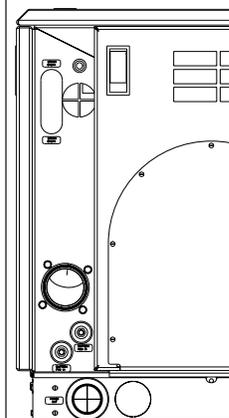
- Remote start/stop
- Sound Guard SST
- Hydro-hush muffler and fittings; fuel water separator
- Anti-siphon valve with 1" inch stainless steel loop
- Ship-to-shore switch
- "A" on board spare parts kit; "B" extended cruising spare parts kit
- Generator set available painted white upon request (standard red)

Dimensions

Inches
(millimeters)



Optional
Sound Guard **SST**
PN 54442



SST
 Length: 45.0" (1143mm)
 Width: 26.0" (660mm)
 Height: 27.0" (686mm)
 Weight: 120 lbs. (54kg)
 (approx.)