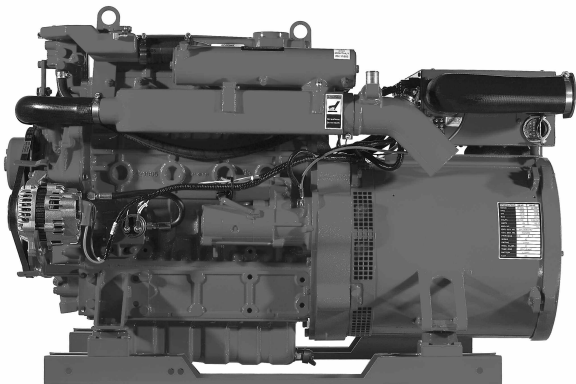
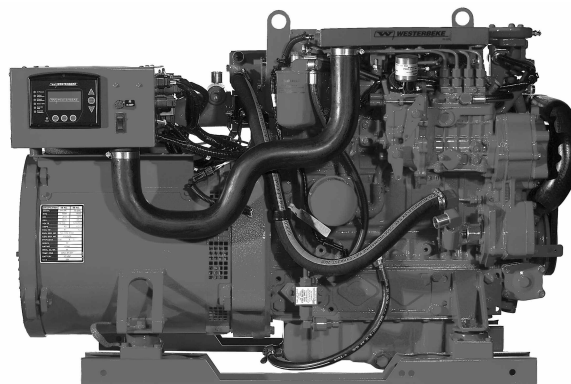




Available fully networked to NMEA 2000®



28.5/23.5 EDEA Marine Diesel Generator



28.5/23.5 EDEA Marine Diesel Generator

The First Electronic Diesel Generators Available NMEA 2000® Certified

Westerbeke, the **first** company to bring constant speed **EFI** generators and **Safe-CO™** generators to the marine market, introduces another first. The wave of the future, Westerbeke D-NET™ electronic generators are offered with standard Westerlink™ or optional 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.

Information At Your Fingertips

All Westerbeke D-NET™ generators have available digital controls offering simplified and easy to understand information on operational status and, if necessary, system diagnostics. Westerbeke also features "at a glance" illuminated lights indicating proper operation. They monitor battery voltage, generator voltage, generator frequency, oil pressure, coolant and exhaust temperature. All this information may be viewed from a distance—all green lights indicate referenced systems are functioning properly. Further details are available on the screen display. The user may conveniently scroll for operational or diagnostic information without encountering "codes". Westerbeke uses text so the user does not have to refer to a manual to decipher numeric information.

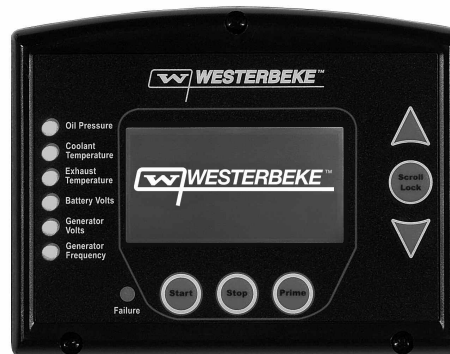
Quiet, Slow-Speed Digital Operation

Operating at 1800-rpm with a newly designed, tuned air intake system and 4-cylinder engine, the 28.5 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.

Standard Features

- Digital display and diagnostics panel
- Electronic governing
- Electronic voltage regulation
- Safety shut-downs: overspeed, underspeed, low oil pressure, high exhaust and high coolant temperature
- Field breaker
- 50 amp battery charging alternator
- Power take-off interface
- Fresh water cooling and coolant recovery tank
- 45 degree water injected exhaust elbow
- Gear driven raw water pump
- Tuned air intake system
- Anti-vibration mounts – fail safe rubber type
- Lube oil drain hose and drip tray
- Oil fill – top and side
- Belt guard
- Operators' Manual and parts list
- 5-year limited warranty

Digital Display



Generator Design

DESIGN: Brushless, four pole, revolving, power take-off.
VOLTAGE REGULATION: Standard +/- 2% no load to full load.
FREQUENCY REGULATION: .3 Hz (.5%) 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 |
| 28.5 EDEA-6112* | 120/240 | 237.5/118.8 | 60 | 1 | 12 | 1.0 | 28.5 | 1800 | Remote |
| 23.5 EDEA-5112* | 230 | 102.2 | 50 | 1 | 12 | 1.0 | 23.5 | 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 | 220.9 cu. in. (3.62 liter) |
| Bore and stroke | 3.86" x 4.72" (98.0 mm x 120.0 mm) |
| Compression ratio | 23:1 |
| Rated rpm | 1800@60Hz /1500@50Hz |
| HP @ 1800/1500 rpm | 43/36 |
| Maximum angle of operation | Not to exceed 20° in all directions |
| Exhaust elbow connection | 3" OD (76.2mm) |
| Sea water connection | 1" OD (25.4mm) |
| Dry weight | 1,135 lbs. (515.9 kilos) |
| Combustion system | Indirect injection |
| Aspiration | Naturally aspirated |
| Lubrication system | Forced lubrication by gear pump |
| Cooling system | 16 quarts (15.14 liters) |
| Starting aid | 12 volt sheathed type glow plug |
| Full load fuel consumption@1800rpm | 2.48 GPH (9.4 LPH) (approx.) |
| Full load fuel consumption@1500rpm | 1.99 GPH (7.5 LPH) (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) | 14 quarts (13.3 liters) |

| | |
|-------------------|-----------------------------------|
| Starting motor | 12 volt, solenoid, actuated shift |
| Alternator | 50 amps |
| Cranking amps | 400-600 amps (includes heater) |
| Electrical system | 12 volts DC, negative ground |

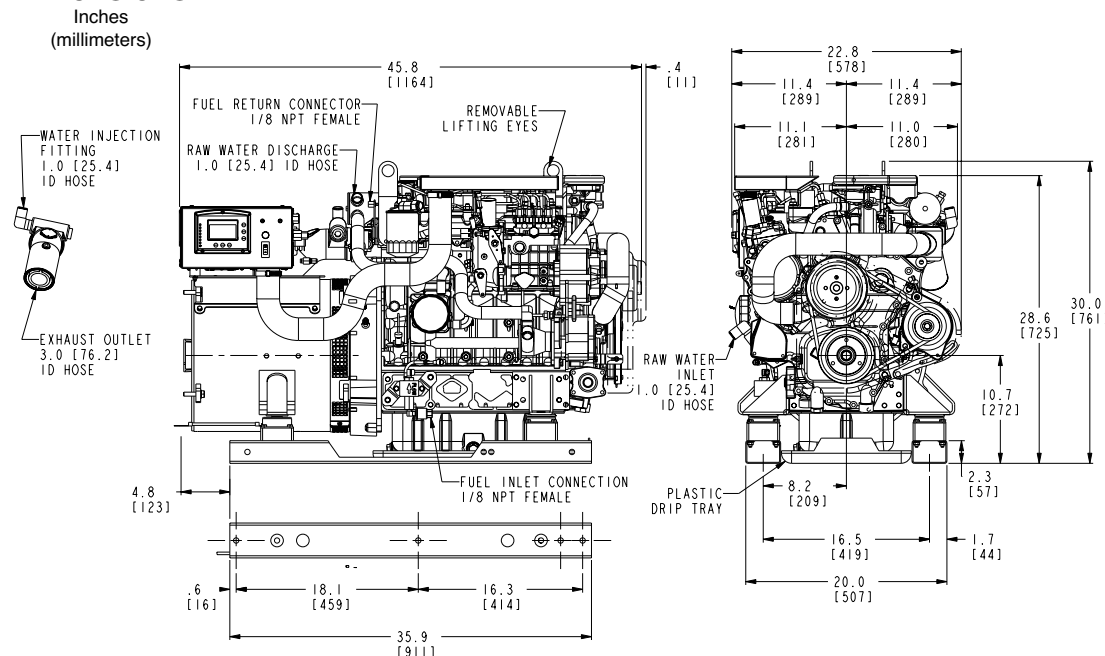
Construction – Engine Components

| | |
|------------------|--|
| 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

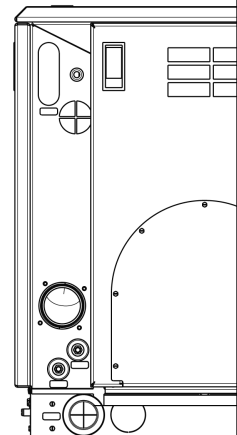
- NMEA 2000® compliant databus communication
- Remote digital display (NMEA 2000®)
- Remote digital display (Westerlink™)
- Remote start/stop for use with Westerlink™ or NMEA 2000® version
- Remote lube oil filter
- Sound Guard SST
- "A" on board spare parts kit; "B" extended cruising parts kit
- Hydro-hush muffler and fittings
- Anti-siphon valve with 1" inch stainless loop
- Ship-shore switch; Auxiliary DC power adapter
- Power take-off with electric clutch
- Generator set available painted white upon request (standard red)

Dimensions



Optional Sound Guard SST

PN 53070



SST

Length: 50.8" (1291mm)
 Width: 27.2" (691mm)
 Height: 30.8" (782mm)
 Weight: 150 lbs. (68kg)