

SPECIFICATIONS AND DIMENSIONS

AC Output*

| | |
|--|------------------|
| 60 Hz, 1800 RPM* kW | 250 kW |
| Voltage regulation | 1.0% |
| Frequency droop control | Isochronous 0% |
| Standard three phase power factor | 0.8 |
| Generator full load temperature rise (at 50°C ambient) | >95°C/50°C |
| Inline cylinders/operating cycle** | I-6 / 4 |
| Aspiration | Turbo & Seawater |

| | |
|--------------------------------------|-------------------|
| Displacement - cid (liter) | 549 (9.0) |
| Bore/stroke - inches (mm) | 4.6/5 (118/127) |
| Fuel injection pump type and control | Electronic (HPCR) |
| Oil fill capacity - gal (ltr) | 8.3 (31) |

Cooling System (heat exchanger standard)

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|--|----------------|
| Heat rejection to jacket water -BTU min | 15,289 |
| Standard cooling type | Heat exchanger |
| Freshwater pump capacity - gpm (lpm) | 78 (297) |
| HE heat exchanger approx. coolant capacity - gal (ltr) | 10 (38) |
| HE seawater pump capacity - gpm (lpm) | 89 (336) |
| HE max seawater pump suction head lift - ft (m) | 9.8 (3) |
| HE sea water pump inlet hose ID - in (mm) | 2.5 (63.5) |
| HE min. seawater inlet/discharge thru-hull - in (mm) | 2.5 (63.5) |

DC Electrical

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|-------------------------------------|-----|
| DC starting voltage - standard | 24 |
| Min battery capacity - amp | 750 |
| Starter rolling amps @ 0°C | 300 |
| Battery cable size up to 10 ft (3m) | 2/0 |

Air (Based on standard three phase)

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|--|-------------|
| Air consumption - cfm (m ³ /m) | 830 (23.5) |
| Approx heat radiated to air - BTU/min | 1018 |
| Generator cooling air flow 1&3Ø - cfm | 880 |
| Exhaust gas volume - cfm (m ³ /m) | 1812 (51.3) |
| Exhaust gas temp - F° (C°) | 756 (402) |
| Max. exhaust back Pressure - inch H ₂ O (mm H ₂ O) | 30 (762) |
| Dry exhaust elbow OD- in (mm) | 4 (102) |
| Wet exhaust elbow OD- in (mm) | 6 (152) |

Fuel

| | |
|--|-------------|
| Fuel injection pump type and control | HPCR |
| Min suction - in (mm) | 3/8 (10) |
| Max fuel transfer pump suction lift - in (mm) | 95 (2408) |
| Max fuel flow to transfer pump - gph | N/A |
| Specific fuel consumption max load (110%) - lbs.hp.hr | 0.367 |
| Approx. fuel rate ³ at (100%) full load - gph (lph)**** | 18.8 (71.3) |

Max Engine Operating Angle

| | |
|---|-----|
| Continuous (with separate expansion tank) | 20° |
| Intermittent (2 minutes) | 30° |

Dimensions and Weight

| | |
|-----------------------------|-------------|
| Length - inches (mm) | 106 (2692) |
| Width - inches (mm) | 42 (1067) |
| Height - inches (mm) | 49.5 (1258) |
| Weight - pounds (kilograms) | 5740 (2604) |

FEATURES AND BENEFITS

Engine Block - Lugged six cylinder, four cycle, in-line, liquid cooled, overhead valve, marine diesels based on heavy-duty industrial engine blocks. Balanced, forged crankshaft with induction hardened journals and rolled fillets for long life. Replaceable, wet cylinder liners for long life and low rebuild costs. Bimetallic valves have chrome stems and rotators...Replaceable valve seats and guides. Three ring aluminum alloy pistons with Ni-Resist insert for the top ring. Keystone piston ring reduces carbon buildup under light loads. Torsional crankshaft dampers help ensure smooth operation. A single poly-vee drive belt powers the alternator and jacket-water pump

Fuel System - High pressure common rail fuel injection for smooth, clean delivery. Direct fuel injection systems. Canister fuel filters include drain and sensors for low fuel pressure and water-in-fuel. Electric Fuel transfer pump with automatic priming.

Lubrication System -Positive displacement gear-type oil pump. Full flow, spin-on oil filter. Oil spray cooling reduces piston crown temperature for longer life. Jacket-water, plate-type, full flow oil cooler reduces heat and prevents lube oil breakdown. Large capacity oil pan. A closed loop crankcase vent traps oil vapor to keep the engine room clean.

Air System - Dry air filter silences intake noise. Turbocharger with jacket water cooled turbine housings for safety. Sea water aftercooler provides optimized combustion and output.

Cooling System - Heat exchanger cooling: Cupronickel, tube type heat exchanger with removable ends for easy cleaning. Gear driven, beltless, flexible impeller, sea water pump is bronze and stainless steel. Cast expansion tank with brass filler neck. Two thermostats for quick warm-ups and safety. Cast-iron exhaust manifold for even temperature control. Heat exchange configuration standard.

DC Electrical System - Electronic System Profiler (ESP) supplies an SAE J1939 data stream through a CANbus plug. Optional engine monitor screen. Negative ground, 24 volt DC system has circuit breaker, starter motor and alternator with regulator. Generator mounted start/stop switches are standard. Optional S-3C remote control panel with engine hour meter, coolant temperature gauge, oil pressure gauge, DC voltage meter, start-stop and shutdown bypass switches. Additional optional panels help you specify the amount and type of information delivered. Reliable, relay based DC system is easy to trouble shoot and repair. Up to 6 panels can be used up to 110 feet from set. Low oil pressure and high coolant temperature safety shutdown system.

AC Generator - Direct coupled, single bearing, 12 lead, re-connectable AC generator. Maintenance free brushless design. All NL generators meet or exceed class society standards with Class "H" insulation, accessible diodes, oversized ball bearings, marine grade shafts and heat rise rating.* Engines and generators are torsionally matched for long life. Automatic voltage regulator; ±1.5% regulation over the entire range from no load to full load. Configured for isochronous frequency control with ECU electronic governor control. * less than 95°C/50°C