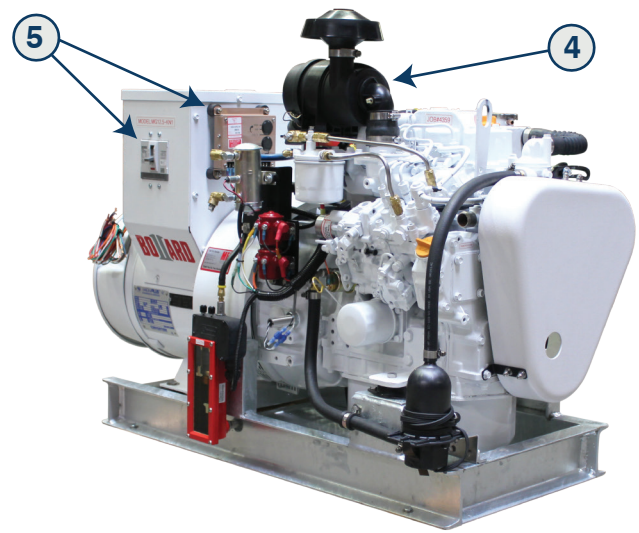
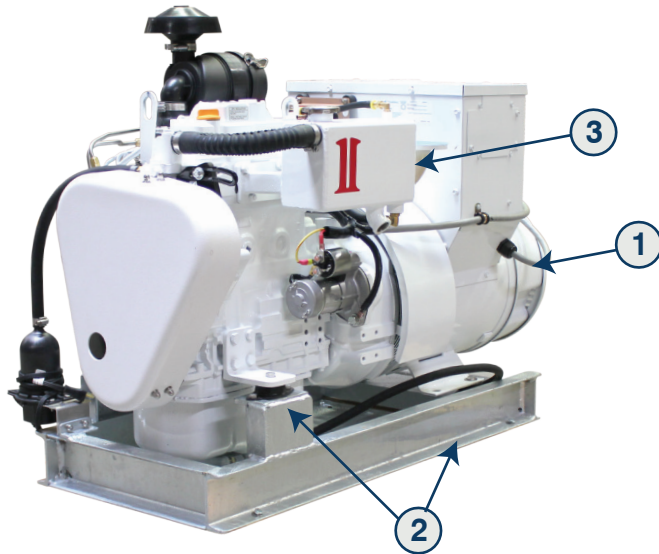


# BOLLARD™ MG9 Series

9kW Marine Generator Specifications

# 9kW



\* Drawings or pictures may show non-standard equipment

## Features and Benefits

### Unsurpassed Quality & Reliability

BOLLARD™ Generators are designed and built in the USA specifically for the rugged conditions of commercial use. The expected time between overhauls on the BOLLARD™ packaged generator set is 20 to 50 thousand hours.

### 1: High Efficiency Generators

Heavy Duty windings engineered for 80 deg. C rise of 40 deg. C ambient yield extended insulation service life, high electrical efficiency for maximum fuel economy, and superior motor starting at all voltages. PMG dedicated excitation is optional, resulting in even higher motor starting together with 300% sustained short circuit capacity along with VFD and paralleling compatibility.

### Emissions

The BOLLARD™ MG-9-12.5 Gen-Sets are EPA certified Final Tier 4, CARB, EU, and MOC. They meet the lowest emissions levels available on the market today without exhaust after-treatment resulting in reduced maintenance and operating costs while preserving our clean air and water quality.

### Keel Cooling, Heat Exchange, or Radiator Compatibility

### Premium Marine Grade Protection

BOLLARD™ generators feature Imron™ 2 part marine epoxy overcoats on the engine, generator, and base frame. Accessory brackets are typically powder coated, and fasteners are primarily stainless steel to protect your investment from the harsh marine environment.

### 2: Heavy Duty Structural Steel Base Frame & Reduced Noise

For ease of installation, added structural integrity, safety and durability. Superior vibration and noise dampening with a high mass flywheel, polyurethane vibration isolators, mass loaded & stiffened base frame, and de-noised engine.

### 3: Water Jacketed Exhaust Manifold and Expansion Tank

Provides low engine room temperatures and greatly reduces fire hazard

### 4: Heavy Duty Air Intake Filtration & Silencing

For increased performance, extended engine life, and quiet operation.

### 5: Controls, Gauges & Instrumentation

Standard enclosed pre-wired digital auto start control panel with push button start/stop. Safety shutdowns are programmed for high water temp, low oil pressure, and over-speed. Included are LED readout of oil pressure, engine hours, DC system voltage, water temperature, engine speed in RPM, Generator Voltage and Frequency. Custom panels offer, auto-start/stop function for inverter or paralleling interface, load sharing, digital generator KW output LEDs and full function electrical distribution switchboards.

## General Specifications

Engine Model	3CH1
Engine Type	In-Line   4 Cycle   3 Cylinder   Diesel
Displacement - L (cu.in)	1.3 (79.33)
Bore x Stroke - mm (in)	80 (3.14) x 84 (3.30)
Aspiration	Naturally Aspirated
Oil Sump Capacity - qts (L)	3.5 (3.4)
Emission Regulation	US EPA Tier 4 Certified
Prime - 60hz, 1800RPM (HP)	9 kW (12.06)
Standby - 60Hz, 1800RPM (HP)	9.9kW (13.26)
Motor Starting Range - HP	3.6-8.6 (Code G Motor @ 208VAC)
Voltage Regulation	+/-1%
Starter	12v   1.4 kW
Alternator	12v   40 Amp
MAX Operating Angle	20° (Constant)   30° (Intermittent)
Package Weight - lbs (dry)	689 (engine, 281 gen, manifold, and skid)
Length x Width x Height - inches	(see back for details)

## Fuel Performance

