**BOLLARD™ MG42**

**42kW Marine Generator Specifications**

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**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 40 to 50 thousand hours.

1: **High Efficiency Motor Starting**

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 standard, resulting in even higher motor starting together with 300% sustained short circuit capacity along with VFD and paralleling compatibility.

**Emissions**

The BOLLARD™ MG42–MG 395 Gensets are EPA certified Tier 3 Marine, 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.

2: **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.

3: **Heavy Duty Air Intake Filtration & Silencing**

For increased performance, extended engine life, and quiet operation

4: **Controls, Gauges, & Instrumentation**

Standard enclosed pre-wired J1939 digital control panel with key start/stop and run/idle switch. Safety shutdowns are programmed for high water temp, low oil pressure, and over-speed. Included are LED readout of all J1939 trouble codes and diagnostics. Custom panels offer auto-start/stop function for inverter or paralleling interface, load sharing, digital generator output LEDs and full function electrical distribution switchboards

5: **Optional SEADRIVE™ Front Power Take Off System**

Compact heavy duty housing, pre-aligned, easy to install, service friendly, integrated torsional coupling, and available with or without a clutch.

6: **Optional SCOR™ Sea Change Oil Regeneration System**

1µ bypass oil filter. Safely extends oil drain intervals and engine life.

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**General Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine Model</strong></td>
<td>4045TFM</td>
</tr>
<tr>
<td><strong>Engine Type</strong></td>
<td>In-Line</td>
</tr>
<tr>
<td><strong>Displacement - L (cu.in)</strong></td>
<td>4.5 (275)</td>
</tr>
<tr>
<td><strong>Bore x Stroke - mm (in)</strong></td>
<td>106 (4.17) x 127 (5.00)</td>
</tr>
<tr>
<td><strong>Aspiration</strong></td>
<td>Turbocharged</td>
</tr>
<tr>
<td><strong>Oil Sump Capacity - qts (L)</strong></td>
<td>19 (18)</td>
</tr>
<tr>
<td><strong>Emission Regulation</strong></td>
<td>EPA Commercial Marine Tier 3</td>
</tr>
<tr>
<td><strong>Prime - 60Hz, 1800RPM (HP)</strong></td>
<td>42 kW (56.76)</td>
</tr>
<tr>
<td><strong>Standby - 60Hz, 1800RPM (HP)</strong></td>
<td>50 kW (61.80)</td>
</tr>
<tr>
<td><strong>Motor Starting Range - HP</strong></td>
<td>(Code G Motor @ 208VAC)</td>
</tr>
<tr>
<td><strong>Voltage Regulation</strong></td>
<td>+/-1%</td>
</tr>
<tr>
<td><strong>Starter</strong></td>
<td>12v</td>
</tr>
<tr>
<td><strong>Alternator</strong></td>
<td>12v</td>
</tr>
<tr>
<td><strong>Operating Angle</strong></td>
<td>20° (Constant)</td>
</tr>
<tr>
<td><strong>Dry Weight - lbs</strong></td>
<td>1922 (engine, 286 gen, skid)</td>
</tr>
<tr>
<td><strong>Length x Width x Height - inches</strong></td>
<td>(See details on back)</td>
</tr>
</tbody>
</table>

* Drawings or pictures may show non-standard equipment
Dimensions

Alternate Dimensions

<table>
<thead>
<tr>
<th>Engine Type</th>
<th>C - Length - In</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>286-1701</td>
<td>27.00” (31.6” w/ PMG)</td>
<td>600</td>
</tr>
<tr>
<td>361-1601</td>
<td>24.96 (27.56” w/ PMG)</td>
<td>569</td>
</tr>
<tr>
<td>UC224E</td>
<td>29.00 (31.5” w/PMG)</td>
<td>636</td>
</tr>
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</table>

Load Performance

<table>
<thead>
<tr>
<th>Load Performance</th>
<th>25%</th>
<th>50%</th>
<th>75%</th>
<th>100%</th>
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</thead>
<tbody>
<tr>
<td>Load in kW</td>
<td>10.50</td>
<td>21.00</td>
<td>31.50</td>
<td>42.00</td>
</tr>
<tr>
<td>Gallons Per Hour</td>
<td>1.11</td>
<td>1.80</td>
<td>2.70</td>
<td>3.53</td>
</tr>
<tr>
<td>kW Per Gallons Per Hour</td>
<td>9.49</td>
<td>11.65</td>
<td>11.65</td>
<td>11.70</td>
</tr>
<tr>
<td>Pounds Per Gallon</td>
<td>7.1</td>
<td>7.1</td>
<td>7.1</td>
<td>7.1</td>
</tr>
</tbody>
</table>

Generating Efficiency

| Generating Efficiency | 93% | 93% | 93% | 93% |

Customizable Options and Accessories

Engine
- Single Circuit Keel Cooling Package
- Single Circuit Heat Exchange Package
- Single Circuit Marine Radiator Package

Motor Starting Upgrade Options
(Code G Motor @ 208VAC)
- Up to 1.1 HP per kW

Air Intake & Filtration
- K&N Air Filters
- Donaldson Air Silencer
- Closed Crank Case Vent Loop

Controls & Instrumentation
- Control Panel
- Custom Harness Length
- Auxiliary Start Panel
- Auto Start/Stop
- Pre-Alarm Senders
- AC Meter Panel
- Low Coolant Level Shutdown
- High Water Temp. Shutdown
- Low Oil Pressure Shutdown
- Low Oil Level Gauge/Shutdown
- Overspeed Shutdown
- Paralleling & Load Share
- Over-Voltage Alarm
- Over-Current Alarm
- Under-Current Alarm

DC Electrical System
- Battery: 12v | 24v
- Battery Rack & Cables
- Battery Isolation Switch

Fuel-Lube Oil System
- SCOR™ Oil Regeneration System
- Oil Drain Extension W/ Valve
- Oil Drain Pump To Engine
- Move Dipstick To Opposite Side
- High/Low Oil Level Shut Down
- Custom Oil Drain Hose Length
- Single Side Service
- Lube Oil Drip Pan

Exhaust
- SS Wet Exhaust Mixing Elbow
- Dry Exhaust Matching Flange
- SUPERFLEX™ Exhaust Bellows
- Cowl & EM Exhaust Silencers
- Heat Recovery Silencer

Power Take Off
- SEADRIVE™ Clutched Front PTO
- Clutch: Air | Oil | Electric
- SEADRIVE™ Direct Drive Front PTO
- Aux. A/B 2 Sheave Universal Pulley
- Aux. A/B 4 Sheave Universal Pulley
- Additional Belts

Air Intake & Filtration
- K&N Air Filters
- Donaldson Air Silencer
- Closed Crank Case Vent Loop
- Walker AirSep

Additional Options
- Sea Trial Start Up
- MER Site Start-Up w/ Load Bank
- Custom Frame / Skid
- Crank Vent Filtration Kit
- Dual Vibration Isolation Mounts
- Custom Sound Enclosure
- Galvanized or Powder Coated Skids & Accessories
- Racor Fuel Water Separator

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