WESTERBEKE GASOLINE GENERATOR

Small, light, powerful – the new





3.0 BPMG Marine Gasoline Generator

The Most Compact 3.0kW

The 3.0 BPMG nicknamed the "MVP3" not only has the smallest envelope available, but there is not another generator like it. The MVP3 was specifically designed for the small boat owner who previously didn't have available space to accommodate a generator with "punch".

Lightweight & Powerful

Weighing in at only 165 pounds, the MVP³ weighs less per kW than one would expect. The MVP3 is powerful enough to run an air conditioner or water heater, etc.

Smooth & Quiet Operation

Operating with 2-cylinders instead of 1, at a low 2200-rpms instead of 3000 or 3600, and with a specially designed flywheel: the MVP3 provides smooth performance and doesn't require a sound shield.

Simple Installation

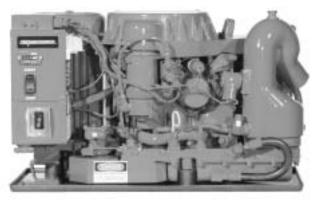
The MVP3 is a simple "plug & play" genset with minimal wiring in the control box. An optional remote start/stop is available with harness to plug into the side of the control box.

Easy Operation

A simple "one-touch" rocker switch eliminates the need for separate start, stop and priming switch.

Clean Exhaust

The MVP³ incorporates a catalytic converter and meets all EPA and CARB requirements.



3.0 BPMG Marine Gasoline Generator

Electronic Governor

Maintains steady speed, provides optimum fuel efficiency and eliminates "bogging down" when load is applied.

Permanent Magnet Generator

A small, compact and completely sealed permanent magnet generator provides 5% voltage regulation, no-load to full-load, and produces a "utility grade" sine wave.

Standard Features

- Simple, "one touch" start/stop control panel with running hour meter
- Electronic governing
- Overspeed protection
- Safety shut-downs overspeed, low oil pressure, high exhaust temperature
- A.C. circuit breaker
- Battery charger
- Water injected exhaust elbow
- Belt-driven, raw water pump
- Vibration mounts
- Lube oil drain hose
- Belt guards
- Operators' manual and parts list
- EPA, CARB & CE compliant
- Meets U.S.C.G. regulation 33CFR-183







Generator Design

DESIGN: Permanent magnet, two-pole.

VOLTAGE REGULATION: Standard +/- 5% no load to full load. FREQUENCY REGULATION: .5 Hz (1%) no load to full load. INSULATION: Class "H" as defined by NEMA MG1-1.66.

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

	Electrical Characteristics					Ratings		Engine	
Model	Volts	Amps	Hertz	Phase	Wire	Power Factor	KW	RPM	Start
3.0 BPMG-612	120	25	60	1	2	1.0	3.0	2200	Remote
3.0 BPMG-512	230	13	50	1	2	1.0	3.0	2200	Remote

^{*} Not field convertible to 50 or 60Hz

Specifications Number of Cylinders 2 Cylinder, horizontal in-line Type 4 cycle Displacement 20.0 cu. in. (.33 liter) Bore and stroke 2.32" x 2.36" (59.0mm x 60.0mm) Compression ratio 9:1 Rated RPM 2200 HP @ Rated RPM 6.0 HP Maximum angle of operation Exhaust elbow conn. 2.0" OD (50.8mm) Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type		
Type 4 cycle Displacement 20.0 cu. in. (.33 liter) Bore and stroke 2.32" x 2.36" (59.0mm x 60.0mm) Compression ratio 9:1 Rated RPM 2200 HP @ Rated RPM 6.0 HP Maximum angle of operation Not to exceed 25° in all directions Exhaust elbow conn. 2.0" OD (50.8mm) Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Specifications	
Displacement 20.0 cu. in. (.33 liter) Bore and stroke 2.32" x 2.36" (59.0mm x 60.0mm) Compression ratio 9:1 Rated RPM 2200 HP @ Rated RPM 6.0 HP Maximum angle of operation Not to exceed 25° in all directions Exhaust elbow conn. 2.0" OD (50.8mm) Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Number of Cylinders	2 Cylinder, horizontal in-line
Bore and stroke Compression ratio Rated RPM P @ Rated RPM Maximum angle of operation Exhaust elbow conn. Pry weight Combustion system Aspiration Lubrication system Cooling system Full load fuel consumption Compression ratio 9:1 8:0.0 mm x 60.0 mm) Not to exceed 25° in all directions 2.0" OD (50.8 mm) 1:50" OD (12.7 mm) 1:55 lbs (75 kg) Semi-spherical type Naturally aspirated Lubrication system Raw water Full load fuel consumption Carburetor Side draft type	Туре	4 cycle
Compression ratio 9:1 Rated RPM 2200 HP @ Rated RPM 6.0 HP Maximum angle of operation Sexhaust elbow conn. 2.0" OD (50.8mm) Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Displacement	20.0 cu. in. (.33 liter)
Rated RPM 2200 HP @ Rated RPM 6.0 HP Maximum angle of operation Schaust elbow conn. 2.0" OD (50.8mm) Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Bore and stroke	2.32" x 2.36" (59.0mm x 60.0mm)
HP @ Rated RPM Maximum angle of operation Exhaust elbow conn. Raw water conn. Dry weight Combustion system Aspiration Lubrication system Cooling system Full load fuel consumption Carburetor Boother Assimation Assimation Control Reverse Aspiration Carburetor Boother Assimation Control Reverse Cont	Compression ratio	9:1
Maximum angle of operation Exhaust elbow conn. Raw water conn. Dry weight Combustion system Aspiration Lubrication system Cooling system Full load fuel consumption Carburetor Not to exceed 25° in all directions 2.0" OD (50.8mm) .50" OD (12.7mm) 165 lbs (75 kg) Semi-spherical type Naturally aspirated Forced pump Raw water .4 GPH (1.5 LPH) Side draft type	Rated RPM	2200
Exhaust elbow conn. Raw water conn. Dry weight Combustion system Aspiration Lubrication system Cooling system Full load fuel consumption Carburetor Sexion OD (50.8mm) 2.0" OD (50.8mm) Semi-spherical type Semi-spherical type Naturally aspirated Forced pump Raw water 4 GPH (1.5 LPH) Side draft type	HP @ Rated RPM	6.0 HP
Raw water conn50" OD (12.7mm) Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Maximum angle of operation	Not to exceed 25° in all directions
Dry weight 165 lbs (75 kg) Combustion system Semi-spherical type Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Exhaust elbow conn.	2.0" OD (50.8mm)
Combustion system Aspiration Aspiration Lubrication system Cooling system Full load fuel consumption Carburetor Semi-spherical type Naturally aspirated Porced pump Raw water Full load fuel consumption A GPH (1.5 LPH) Side draft type	Raw water conn.	.50" OD (12.7mm)
Aspiration Naturally aspirated Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Dry weight	165 lbs (75 kg)
Lubrication system Forced pump Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Combustion system	Semi-spherical type
Cooling system Raw water Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Aspiration	Naturally aspirated
Full load fuel consumption .4 GPH (1.5 LPH) Carburetor Side draft type	Lubrication system	Forced pump
Carburetor Side draft type	Cooling system	Raw water
	Full load fuel consumption	.4 GPH (1.5 LPH)
	Carburetor	Side draft type
Governor	Governor	Electronic
Lube oil filter Full flow, spin on element	Lube oil filter	Full flow, spin on element
Lubricant capacity 1.5 quarts (1.4 liters)	Lubricant capacity	1.5 quarts (1.4 liters)
Fuel transfer pump Mechanical type	Fuel transfer pump	Mechanical type

Fuel supply piping	.25" ID (6.35mm)
Starting motor	12 volt, .6kW
Battery charging	11 amps, flywheel alternator
Cold cranking amps	70 amps @ 70 degrees F
Electrical system	12 volts DC, negative ground

Construction – Engine Components				
Cylinder head	Aluminum			
Cylinder block	Aluminum			
Crankshaft	Forged crankshaft, two main bearings			
Valves	Overhead			
Fuel system	Carbureted w/U.S.C.G. approved flame arrestor			
Cooling system	Raw water-cooled			
Exhaust manifold	Cast aluminum, raw water-cooled			

Optional Equipment

Fresh water cooling (heat exchanger)

Remote start-stop panel

Ship-shore switch

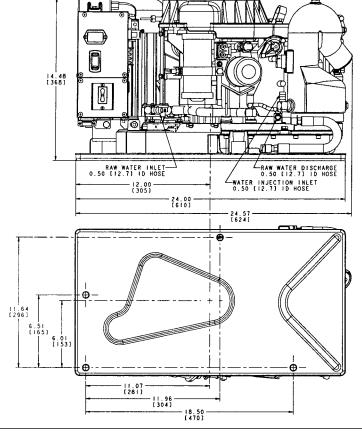
Hydro-hush muffler and fittings

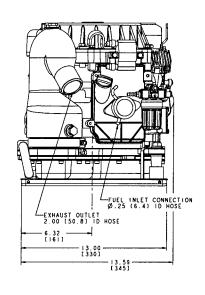
"A" on-board spare parts kit; "B" extended cruising spare parts kit Anti-siphon valve for overboard cooling water discharge

Anti-siphon valve for overboard cooling water discharg

Technical Manual

Basic Dimensions inches (millimeters)





For optional fresh water cooling - Add to overall width 2.27" (57.7mm) Add to overall length 1/2" (12.7mm)

Drawings are for reference only and should not be used for installation. Detailed installation drawings are available upon request.

Westerbeke Corp., Myles Standish Industrial Park, 150 John Hancock Road, Taunton, MA 02780-7319, U.S.A. • TELEPHONE: (508) 823-7677 • FAX: (508) 884-9688 • Website: www.westerbeke.com

Specifications Subject to Change without Notice.

FC-2/08