

IMPORTANT INSTALLATION PARTS



Our new Delta water/exhaust gas separator is an essential component of a silent and reliable exhaust system. The Delta system removes the principle cause of back pressure and stops the irritating splashing noise, known from conventional exhaust systems. The Delta separator is made from high resistant fiberglass, fitted with multi-fit brass connections, suitable for 1" or 2" ø hose diameters. The stainless steel bracket is supplied as standard. Depth of the system including bracket is 6.7 inch only. The Delta separator has been designed to fit in any (Whisper) generator system up to 20 kVA rating. Part # 50230097.



Our new Delta silencer/waterlocks are designed for use with Whisper generators positioned on or below the waterline. The Delta silencer systems have excellent acoustics, are high temperature proof and designed for any (Whisper) generator system from 3.5 to 20 kVA. The naval brass hose connections are suitable for 1" or 2" ø hoses. Mounting bracket supplied as standard. Part # 50230093.



High quality rubber exhaust hoses (1" or 2"), Lloyds cert. DNV S-2793, are available from stock. Upon request supplied with hose clamps, elbows, etc. Ask for our complete exhaust kit overview.



We offer an additional full maintenance free gel battery, together with a 3-step charger, battery (230V AC supply required) terminals plus protection covers and a DC switch as a ready-to-install electrical kit.



Practical spare part kits are available of the shelf.



Useful add-on for our one-cylinder Whisper 3.5 and Whisper 6 : galvanised steel mounting plate, ensuring an optimal vibration free installation.



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THE POWER TO BE INDEPENDENT



DIESEL GENERATORS (WHISPER)

Ultra silent watercooled diesel generators, 3600 rpm

Mastervolt's comprehensive range of AC diesel generators is ultra-quiet, compact, easy to install and reliable. All shipboard conveniences such as washer/dryers, air conditioning systems and other AC appliances are now available to you at a push of a button. At the same time, your batteries are being recharged quickly, allowing you to switch back to silent inverter power for the remainder of the day. The entire Whisper range is now fitted as standard with the new Digital Diesel Control system.

Technology explained : The engine

Mastervolt uses indirect-injected 4-stroke diesel engines manufactured by Mitsubishi & Kubota. Exceptionally quiet, compact and smooth running, these high-tech engines conform to the strictest emission level requirements and are extremely environmentally friendly. The Whisper engines are designed for marine use and are soft mounted inside a sound shield.

Cooling principle

All engines are heat exchanged cooled. The combustion air is cooled as well, to ensure optimal performance under extreme conditions. The alternator is water cooled by an integrated cooler made of seawater-corrosion proof cupra-nickel.

The power section

All Whisper generator sets are fitted with a synchronous alternator. This type of alternator is the world standard because of its ability to produce the initial power surge required by inductive appliances such as electric motors and compressors. Precise voltage regulation generates optimal power with a clean sine wave.

NEW :
Digital Diesel Control



There is no need for a large enclosure with capacitors, usually found on a-synchronous generators. Mastervolt generators do not contain brushes, they regulate their own voltage and are maintenance free.

Advanced Digital Diesel Control now standard

The new Whisper generator sets are standardly supplied with this very advanced digital control system. Some of the major features are automatic starting and stopping combined with monitoring functions, both actual and historical: Volt/Amps/frequency/load and operating hours readout. Furthermore it supports fault finding and maintenance. You can find a detailed description in this datasheet.



Systems, not just boxes

An important advantage offered by Mastervolt is the availability of a wide range of custom designed system components such as the silencer/waterlock, exhaust water/gas separators, DC kits for starting, etc. Most of them are offered as a complete kit, including our spare parts.

- EXTREMELY COMPACT
- ULTRA QUIET
- DIESEL POWERED
- SYNCHRONOUS ALTERNATOR
- ALL-WATERCOOLED
- COMPREHENSIVE DIGITAL MONITORING AND CONTROL AS STANDARD
- CUSTOM DESIGNED INSTALLATION PARTS
- EASY TO INSTALL
- WORLD WIDE SERVICE

Version no. US250107.
Part # 500003606.



Mastervolt Guarantee Plan • 2-year product warranty • worldwide on board service

TECHNICAL SPECIFICATIONS 3600/3000 RPM MODELS

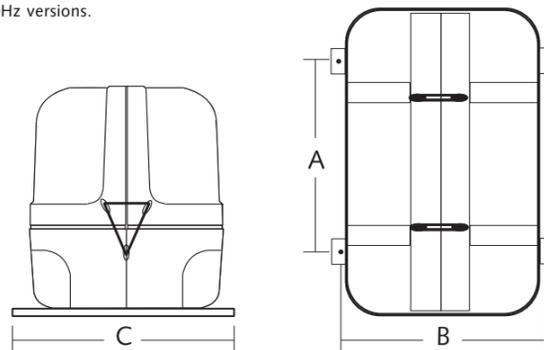


	Whisper 3.5	Whisper 6	Whisper 8	Whisper 12
Part # 120V or 120/240V 60Hz	50900555	50902055	50903055	50904055
Part # 230V/50Hz*	50900500	50902005	50903005	50904005
GENERAL GENERATOR INFORMATION				
Nominal power**	4 kVA, 3.2 kW	7.1 kVA, 5.7 kW	9.2 kVA, 7.4 kW	14.5 kVA, 11.6 kW
Nominal voltage	120V - 27A	120/240V - 48/24A	120/240V - 61/30A	120/240V - 96/48A
Output frequency	60Hz	60Hz	60Hz	60Hz
Power factor / cos phi	0.8	0.8	0.8	0.8
Voltage tolerance (V)	± 6%	± 6%	± 6%	± 6%
Frequency tolerance (Hz)	± 5%	± 5%	± 5%	± 5%
Voltage regulation	capacitor	capacitor	----- capacitor + AVR (optional) -----	
Starter battery, AGM type, optional	12V 70Ah / DM24	12V 70Ah / DM29	12V 70Ah / DM29	12V 70Ah / DM29
Battery charge current	auxiliary winding 8A	alternator 40A	alternator 40A	alternator 40A
Dry weight	190 lbs	392 lbs	392 lbs	462 lbs
ø wet marine exhaust	1½"	1½"	1½"	1½"
ø dry exhaust pipe	1" BSP	1" BSP	1" BSP	1½" BSP
Location oil refill cap	top&side	top&side	top&side	top&side
Max. operating angle	25° in all directions			
Alternator	water-cooled, no brushes, synchronous			
SPECIFICATIONS DIESEL ENGINE				
Engine model	OC60	L2E	L2E	L3E
Number of cylinders	1	2	2	3
Cylinder capacity	276 cc	635 cc	635 cc	952 cc
Bore & stroke	2.8 x 2.7 inch	2x 3 x 2.8 inch	2x 3 x 2.8 inch	3x 3 x 2.8 inch
Air consumption	0.38 m³/min.	0.95 m³/min.	0.95 m³/min.	1.43 m³/min.
Engine cooling	oil-cooled	----- indirect watercooling -----		
Fuel consumption (no load - full load)	0.18-0.31 gph	0.26-0.66 gph	0.26-0.79 gph	0.26-1.05 gph
Pump capacity	2.6-3.2 gpm	4.8 gpm	4.8 gpm	4.8 gpm
ACCESSORIES				
Remote control panel (standard)	Digital Diesel Control	Digital Diesel Control	Digital Diesel Control	Digital Diesel Control
Second remote control panel / slave (art. no. 50209102)	optional	optional	optional	optional
System panel	optional	optional	optional	optional
Power Take Off (PTO)	no	no	no	no
Three phase version	no	no	no	no
Keel cooling	optional	optional	optional	optional
Mobile version	no	no	no	no
Ungrounded version (insulated return)	optional	optional	optional	optional

* Please consult our website (www.mastervolt.com) for the exact specifications of our 50Hz versions.
 ** Peak power capability : 200%.

Dimensions (in inches) for 3600/3000 rpm versions:

Model	3.5	6	8	12
• length	19.9	26	26	31.9
• width	15.7	19.5	19.5	20.7
• height	19.7	21.7	21.7	24.2
• A	12	16	16	21.7
• B	16.1	19.5	19.5	21.7
• C	16.9	20.5	20.5	23.6



DIGITAL DIESEL CONTROL DESCRIBED

Easy to install

The Digital Diesel Control system consists of a central control unit and a local control panel already installed on the generator set, and a remote panel as a user friendly interface between the operator and the generator. Communication between the remote panel and control unit takes place by means of a 'plug in' communication cable that is included with the system. Now the system is ready to be used and no further settings are required!

Easy to operate

Basic operation of the Digital Diesel Control is very easy: a short push on the start button will initiate the start procedure. Each step in this procedure is displayed on the panel and shows for itself. Stopping is possible at any moment by pushing the stop button briefly. While the generator set is running the LCD display on the remote panel shows the most important information about the output and load. The load bar allows observation-at-a-glance of the load as well.

When scrolling through the menu by pushing the Select button, various advanced actual engine diagnostic and historical data can be monitored. In the event of a failure a red LED indicator lights up and the microprocessor will stop the engine. After stopping, detailed information about the failure is shown on the LCD display.

Quick Scan DDC functions :

Load bar

The load bar displays the approximate load that is connected to the generator in proportion to the maximum available power. Each LED represents 20% of the available power. In the event of an overload situation a red LED illuminates.



LCD display

The backlit LCD display shows the actual status and user specific information of the Whisper generator. When two blinking stars (*) are shown, the autostart function or the interval mode is activated.

Read out information

Both actual and historical information is shown:

- Voltage, Amps, frequency at the output of the generator.
- Load in kVA and as a percentage of the total available power.
- Voltage of the starter battery and an additional second battery.
- Deepest battery voltage.
- Time before maintenance.
- Latest warnings.

Programming

- Alarm function set points: low AC voltage, high amps, low frequency, low battery.
- Adjustment of engine control.
- Autostart function: to start the generator on low battery voltage.
- Interval mode to start and stop the generator at any desired moment.

Generator control buttons

A simple touch of the Start button will start the generator at any time. Press Stop for an immediate stop.

Set and Select

Press the Set and Select buttons for navigation through the programming and read-out menus.

Overview of the DDC menu

- **Energy menu.**
Allows you to adjust the setpoints of the alarm functions.
- **Engine menu.**
Allows you to adjust the Digital Diesel Control according to the engine specifications.
- **Autostart menu.**
Allows adjustment of trigger points to start and stop the generator automatically because of a low battery voltage (restricted access).
- **Interval menu.**
Settings to run the generator periodically (restricted accessibility).
- **Display menu.**
Used to reset and adjust several parameters according to the user specific requirements, e.g. the internal clock.

Read our detailed 'Mastervolt DDC technical description' on our website.

