

Magnum Mobile Generator – MMG75D Specifications

ENGINE

- John Deere® PE4045HFG92 - turbocharged, diesel engine
 - Prime - 97 hp @ 1800 rpm
 - Standby - 107 hp @ 1800 rpm
 - 4 cylinder
 - 4.5 L displacement
 - Interim Tier IV approved
- Steel, single wall fuel tank
 - 165 gal. capacity
 - 31 hr. run time – full load
 - Fuel tank built into skid of generator set
- Fuel consumption at prime:
 - 100% - 4.78 gph (18.1 Lph)
 - 75% - 3.74 gph (14.2 Lph)
 - 50% - 2.6 gph (9.8 Lph)
- Cooling system capable of operating at 120°F ambient
- Low coolant shutdown
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- Disposable air filter - paper element
- Air cleaner restriction indicator mounted on control panel
- 60 Hz engine/generator
- Electronic isochronous governing



Trailer sold separately.

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GENERATOR

- Marathon Electric®
 - Brushless
 - 4 pole
 - Class H insulation
- Voltage regulation +/- 1% with Marathon SE350 Voltage Regulator

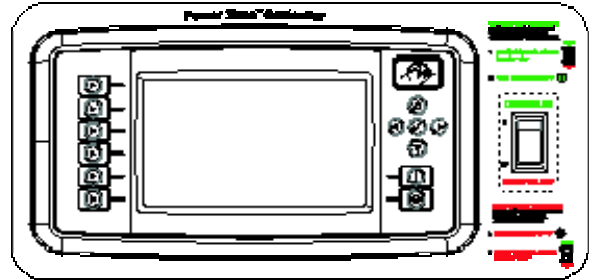
SYSTEM OUTPUT

- 3 position selector switch
 - Single phase – 120 / 240V Zig Zag
 - Three phase – 120 / 208V Low Wye
 - Three phase – 277 / 480V High Wye
- 60 kW / 60 kVA – standby, single phase
- 56 kW / 56 kVA – prime, single phase
- 69 kW / 86 kVA – standby, three phase
- 62 kW / 77 kVA – prime, three phase

SYSTEM CONTROLS

- Power Zone™ controller and display

- Backlit, 800 x 480 pixel resolution color display
- -40°F to 185°F operating temperature range
- Automatic coarse voltage adjustment
- Integrated fine voltage adjustment
- PLC functionality
- Push buttons for easy operation
 - Manual or Auto Start
 - Engine Start
 - Engine Stop/Reset
 - Alarm Mute
 - Operator Screens
 - ◆ Home
 - ◆ Engine
 - ◆ Generator
 - ◆ Voltage Adjust
 - Scrolling Arrows for Diagnostic Information
 - ◆ Engine diagnostic display
 - Oil pressure
 - Engine temperature
 - Fuel level
 - Battery
 - Aftertreatment inlet/outlet temperature
 - Ash/soot levels
 - ◆ Generator diagnostic display
 - System kW output display
 - Line output & frequency display
 - ◆ Alarms
 - Warning
 - Shutdown
 - Electrical Trip
 - Engine
 - ◆ Alarm list – warnings / shutdowns 250 event history log – date/time stamp
 - Fuel level: warning – 15%; shutdown – 5%
 - Overspeed protection: shutdown – 115%
 - Oil pressure: warning – 25 psi; shutdown – 20 psi
 - Coolant temperature: warning – 220°F; shutdown – 230°F
 - Battery voltage: over – 15VDC; under – 11VDC
 - Generator over voltage: warning – 110%; electrical trip – 111%
 - Generator under voltage: warning – 87%; electrical trip – 86%
 - Generator over frequency: warning – 105%; electrical trip – 110%
 - Generator under frequency: warning – 95%; electrical trip – 90%
 -
 - ◆ Inputs/Outputs
 - ◆ Auto Schedule
 - ◆ Status
 - Configuration of controller, firmware and connections



ELECTRICAL CONTROLS

- Remote start / stop contacts located next to lug box
- Lockable control box door with diagnostics window
- Lockable lug box with safety switch
 - Trips main breaker when door is opened
 - Disables voltage regulator
- Cable entry guides to the lug box
 - Provides separation for cables
 - Restricts access of foreign objects
- Output ground connection lug inside lug box
- 300A main breaker with shunt trip
- Convenience receptacles with individual breakers (restricted use in high wye mode)
 - (2) 120V 20 Amp GFCI duplex outlets – (Nema 5-20R type)
 - (3) 125 / 250V 50 Amp, 3 pole, 4 wire twistlock (Non-Nema 6369)
- Panel mounted rheostat for voltage adjustment - +/- 10%
- 720 CCA wet cell battery

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
 - 68 dB(A) at 23 feet – prime power
- Fully lockable enclosure including doors and fuel fill
- Stainless steel hinges on doors
- Emergency stop switch located on outside of enclosure
- Central lifting point
- Multi-lingual operating/safety decals
- Document holder with operating manual including AC/DC wiring diagrams

TRAILER

- DOT approved tail, side, brake, and directional lights
 - Recessed rear lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3" lunette ring hitch
- 6000 lb. axle with surge brakes
- 3000 lb. tongue jack with footplate
- ST225/75R15 tubeless tires – 8 ply

WEIGHTS & DIMENSIONS

Skid mounted

- Dry weight: 3530 lbs (1600 kg)
- Operating weight: 4700 lbs (2131 kg)
- 101 x 40 x 68 in
(2.57 x 1.02 x 1.73 m)

Trailer mounted

- Dry weight: 4240 lbs (1923 kg)
- Operating weight: 5410 lbs (2454 kg)
- 166 x 62 x 84 in
(4.22 x 1.57 x 2.13 m)

WARRANTY

- Engine and generator covered under OEM warranty – consult factory for details.

CERTIFICATIONS

- CSA certified

MMG75D Options

ENGINE OPTIONS

- ◆ In-line engine block heater (Kim Hotstart)
- ◆ Fuel transfer pump

ELECTRICAL CONTROLS OPTIONS

- ◆ 720 CCA AGM sealed battery (Optima)
- ◆ Battery disconnect
- ◆ Battery charger – 2A trickle

GENERATOR OPTIONS

- ◆ PMG Generator - critical grade power quality
- ◆ SUPERSTART™ Generator - motor starting applications
 - 66 kW / 66 kVA – standby, single phase
 - 60 kW / 60 kVA – prime, single phase
 - 70 kW / 88 kVA – standby, three phase
 - 63 kW / 79 kVA – prime, three phase

VOLTAGE OUTPUT OPTIONS

- ◆ 4 position phase switch
 - Single phase – 120 / 240V Zig Zag
 - Three phase – 120 / 208V Low Wye
 - Three phase – 277 / 480V High Wye
 - Three phase – 120 / 240V Delta
- ◆ Dedicated voltage configurations
- ◆ Buck Transformer kit – Provides 120V at GFCI outlets when in 277/480V
- ◆ Cam locks

SYSTEM CONTROLS OPTIONS

- ◆ Analog gauges
- ◆ Auxiliary strobe/audible indication for soft & hard alarm conditions

COOLANT OPTIONS

- ◆ 60/40 Coolant - cold weather applications

ENCLOSURE OPTIONS

- ◆ Fire extinguisher
- ◆ Interior cabinet light
- ◆ Control panel light

FUEL TANK OPTIONS

- ◆ 36 hr. single wall fuel tank (requires tandem axle trailer)
- ◆ TBD hr. double wall fuel tank
- ◆ 120% Containment

TRAILER OPTIONS

- ◆ Single axle trailer w/ electric brakes
- ◆ Tandem axle trailer w/ surge brakes
- ◆ Tandem axle trailer w/ electric brakes
- ◆ 6 pin or 7 spade electrical connectors
- ◆ Spare tire/wheel kit

HITCH OPTIONS

- ◆ 2" ball
- ◆ 2 5/16" ball
- ◆ Adjustable height options:
 - 2" ball
 - 2 5/16" ball