

Mobile Generator – MMG100 Specifications

ENGINE

- John Deere® PE4045HF285 turbocharged, diesel engine
 - o Prime 122 hp @ 1800 rpm
 - Standby 133 hp @ 1800 rpm
 - o 4 cylinder
 - o 4.5 L displacement
 - o Tier III approved
- Steel, single wall fuel tank
 - o 147 gal. capacity
 - o 22 hr. run time full load
 - o Fuel tank built into skid of generator set
- Fuel consumption at prime:
 - o 100% 6.2 gph (23.5 Lph)
 - o 75% 4.7 gph (17.8 Lph)
 - o 50% 3.1 gph (11.7 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 filter restriction indicator mounted on control panel
- 60 Hz engine/generator
- Electronic isochronous governing

GENERATOR

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

SYSTEM OUTPUT

- 3 selector switch modes:
 - o Single phase 120 / 240V Zig Zag
 - o Three phase 120 / 208V Low Wye
 - Three phase 277 / 480V High Wye
- 75 kW / 75 kVA standby, single phase
- 71 kW / 71 kVA prime, single phase
- 86 kW / 107 kVA standby, three phase
- 78 kW / 98 kVA prime, three phase

SYSTEM CONTROLS

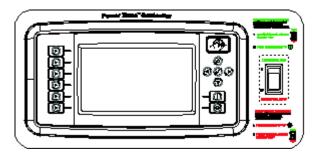
- Power Zone[™] controller and display
 - o Backlit, 800 x 480 pixel resolution color display
 - -40°F to 185°F operating temperature range
 - Automatic coarse voltage adjustment
 - Integrated fine voltage adjustment



- PLC functionality
- Push buttons for easy operation
 - Manual or Auto Start
 - Engine Start
 - o Engine Stop/Reset
 - o Alarm Mute
 - Operator Screens
 - ♦ Home
 - ♦ Engine
 - ♦ Generator
 - Voltage Adjust
 - o 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
 - o Trips main breaker when lug door is opened
 - o Disables voltage regulator
- Cable entry guides to the lug box
 - Restricts access of foreign objects
- Output ground connection lug inside lug box



- 400A 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)
 - o (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

- Generac Mobile Power decals
- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - o Insulated and baffled
 - o 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

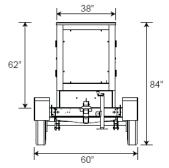
WEIGHTS & DIMENSIONS

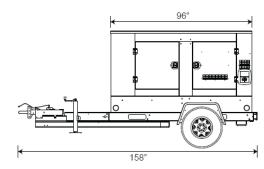
Skid mounted

- Dry weight: 3402 lbs (1543 kg)
- Operating weight: 4361 lbs (1978 kg)
- 96 x 38 x 62 in (2.44 x 0.97 x 1.58 m)

Trailer mounted

- Dry weight: 4104 lbs (1860 kg)
- Operating weight: 5062 lbs (2296 kg)
- 158 x 60 x 84 in (4.01 x 1.52 x 2.13 m)





WARRANTY

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

CERTIFICATIONS

CSA certified

MMG100 Options

ENGINE OPTIONS

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

ELECTRICAL CONTROLS OPTIONS

- ♦ 720 CCA AGM battery
- Battery disconnect
- ♦ Battery charger 2A trickle

GENERATOR OPTIONS

- ♦ PMG Generator critical grade power quality
- SUPERSTART™ Generator motor starting applications
 - 78 kW / 78 kVA standby, single phase
 - 72 kW / 72 kVA prime, single phase
 - 88 kW / 110 kVA standby, three phase
 - 80 kW / 100 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)
- ♦ 17 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
- ♦ 25/16" ball
- ♦ Adjustable height options:
 - 2" ball
 - 2 5/16" ball