Mobile Generator – MMG130 Specifications

ENGINE

- John Deere® PE4045HFG93 -
  - turbocharged, diesel engine
    - Prime - 152 hp @ 1800 rpm
    - Standby - 166 hp @ 1800 rpm
    - 4 cylinder
    - 4.5 L displacement
    - Interim Tier IV emissions

- Steel, single wall fuel tank
  - 342 gal. capacity
  - 44 hr. run time – full load
  - Fuel tank built into skid of generator set

- Fuel consumption at prime:
  - 100% - 7.4 gph (28.0 Lph)
  - 75% - 5.5 gph (20.8 Lph)
  - 50% - 3.7 gph (14.0 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
- Utilizes DOC / DPF exhaust filter
- Variable Geometry Turbocharger (VGT)

GENERATOR

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

SYSTEM OUTPUT

- 3 selector switch modes:
  - Single phase – 120 / 240V Zig Zag
  - Three phase – 120 / 208V Low Wye
  - Three phase – 277 / 480V High Wye
• 96 kW / 96 kVA – standby, single phase
• 90 kW / 90 kVA – prime, single phase
• 107 kW / 134 kVA – standby, three phase
• 98 kW / 122 kVA – prime, three phase

SYSTEM CONTROLS

• Microprocessor-based controller
  o Backlit, 128x64 pixel resolution display
  o -40°F to 185°F operating temperature range
  o Thermostatically controlled LCD heater
  o Six LED indicators w/ lamp test
    ✦ Alarm / Fault (Red)
    ✦ Ready / Manual (Red)
    ✦ Running (Green)
    ✦ Warning (Yellow)
    ✦ Ready / Auto (Green)
    ✦ Supplying Load (Green)

• Push buttons for easy operation
  o Manual or Auto Start
  o Engine Start or Stop
  o Alarm Cancel & Fault Reset
  o Scrolling Arrows for Diagnostic Information
    ✦ System kW output display
    ✦ Line output & frequency display
    ✦ Engine diagnostic display
      • Oil pressure
      • Engine temperature
      • Fuel level
      • Battery
    ✦ System hours
      • Running hours
      • kW hours
      • Time to service
  o Alarm list – warnings / shutdowns are date & time stamped
    ✦ 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%; shutdown – 111%
    ✦ Generator under voltage: warning – 87%; shutdown – 86%
    ✦ Generator over frequency: warning – 105%; shutdown – 110%
    ✦ Generator under frequency: warning – 95%; shutdown – 90%
    ✦ Over current shutdown
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 lug door is opened
  - Disables voltage regulator
- Cable entry guides to the lug box
  - Restricts access of foreign objects
- Output ground connection lug inside lug box
- 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%
- 1000 CCA wet cell battery

ENCLOSURE

- Generac Mobile Power decals
- 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
- (2) 6000 lb. axles with surge brakes
- 5000 lb. tongue jack with footplate
- 7.50x16E-6-W tubeless tires – 10 ply

WEIGHTS & DIMENSIONS

Skid mounted

- Dry weight: 5444 lbs (2469 kg)
- Operating weight: 7929 lbs (3596 kg)
- 144 x 50 x 77 in
  (3.66 x 1.27 x 1.95 m)
MMG130 Specifications Continued:

Trailer mounted
- Dry weight: 6840 lbs (3102 kg)
- Operating weight: 9325 lbs (4230 kg)
- 210 x 86 x 93 in
  (5.33 x 2.18 x 2.36 m)

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

CERTIFICATIONS
- CSA pending

MMG130 Options

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

ELECTRICAL CONTROLS OPTIONS
- Battery disconnect
- Battery charger – 2A trickle

GENERATOR OPTIONS
- Super Start Generator - motor starting applications

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
- 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
♦ 23 hr. double wall fuel tank
♦ 120% Containment

TRAILER OPTIONS
♦ Tandem axle trailer w/ electric brakes
♦ 6 pin or 7 spade electrical connectors
♦ Spare tire/wheel kit

HITCH OPTIONS
♦ 2 5/16" ball