



## Mobile Generator – MG 170, Specifications

### ENGINE

- John Deere PE6068HF285 turbocharged diesel engine
  - 6.8 Liter, 6 cylinder
  - 216 hp at 1800 rpm (prime)
  - Tier III approved
- 28 hr (313 usable gallons) fuel tank
- Fuel consumption at prime:
  - 25% power is 3.17 g/h
  - 50% power is 6.21 g/h
  - 75% power is 8.48 g/h
  - 100% power is 10.93 g/h
- Radiator sized to allow continuous operation in 120 F temperatures
- Radiator and oil drains on flexible hose extensions
- Rubber vibration dampers to frame
- Dry paper type disposable air filter
- Air cleaner restriction indicator mounted on control panel
- 1000 CCA wet cell battery

### GENERATOR SET

- Marathon Electric generator
  - 150 kW/188 kVA standby 3 phase
  - 137 kW/171 kVA prime 3 phase
  - Brushless
  - 3 position selector switch
    - Single phase 120/240 VAC
    - Three phase 120/208 VAC
    - Three phase 277/480 VAC
- CSA Listed, Class 42501 for Electric Generating Plants

### UNIT CONTROLS

- EZ-1 Genset controller
  - Backlit, 128 x 64 pixel resolution monitoring display
  - Six LED indicators w/ lamp test on startup
    - Alarm / Fault (Red)
    - Ready / Manual (Green)
    - Running (Green)

- Warning (Yellow)
  - Ready / Auto (Green)
  - Supplying Load (Green)
- Push buttons for easy operation w/ sealed membrane to IP65
- Operation of engine / generator set
  - Manual
  - Auto
  - Alarm Cancel
  - Fault Reset
  - Engine Start
  - Engine Stop
- Available metering displays include
  - Engine speed
  - Oil Pressure
  - Coolant Temperature
  - Battery voltage
  - Fuel level
  - Running hour meter
  - All generator measurements (KVA<sub>r</sub>, kW, V<sub>1</sub>-V<sub>3</sub>, Hz, Amperage L1-L3, kWh, KVAh)
- Engine/generator
  - Fuel level warning and shutdown
  - Overspeed protection warning and shutdown
  - Oil pressure warning and shutdown
  - Coolant temperature warning and shutdown
  - Battery voltage over and under protection
  - Generator over / under voltage warning and shutdown
  - Generator over / under frequency warning and shutdown
  - Over current shutdown
- -40F to 185F operating temperature range
- Low coolant shutdown kit

## **ELECTRICAL CONTROLS**

- Remote starting capability
  - Start / Stop contacts located on terminal strip
- Lockable control box door
  - Window to observe LCD
- Lug box safety switch
  - Main breaker trips when door is opened
- Cable entry box guards against any foreign objects having access to the lugs
- Output ground connection lug on inside of lug box
- Document holder to store supplied operation and parts manual

- 700 Amp main breaker
- Convenience receptacles with individual breakers
  - (2) 120 VAC 20 Amp GFCI duplex outlets (Nema 5-20R type) (139VAC in 480 operations)
  - (3) 125 / 250 VAC 50 Amp 3 pole 4 wire twistlock (Non Nema 6369)
- Panel mounted rheostat
  - Fine adjust voltage +/- 10%

## **VOLTAGE REGULATION**

- Voltage regulation is +/- 1% with Marathon SE350 Voltage regulator
- Generator speed is controlled by an electronic governor, and is switchable between droop and isochronous governing
- Lockable voltage selector switch
  - 277 / 480 VAC three phase High wye
  - 120 / 208 VAC three phase Low wye
  - 120 / 240 VAC single phase Zig Zag

## **ENCLOSURE**

- Sound attenuated aluminum enclosure with white industrial powder coat finish
- Enclosure with baffles and insulation
  - 68 dBA @ 23 feet at prime power
- Fully lockable enclosure
- Emergency stop switch located on outside of enclosure
- Locking external fuel cap
- Central lifting point on steel internal lifting structure
- Skid mounted for easy mounting to trailer or base

## **TRAILER**

- Industrial powder coated flat black finish
- Tie down points on unit
- Tail, side, brake, and directional lights meet DOT standards
- Tandem 6000 lb. axles w/surge brakes
- Adjustable 3" ring hitch
- 16" tires
- Safety chains
- 5000lb. capacity "topwind" tongue jack w/footplate
- Non-skid step in front and rear of fender

## Mobile Generator – MG 170, Optional Accessories

### ENGINE OPTIONS

- In-line engine block heater (KIM hot start)
- Battery disconnect
- 22 hour, (275 usable gallons) fuel tank – double wall
- 120% containment pan
- Fuel transfer pump

### GENERATOR OPTIONS

- Standard generator – 4 position phase switch
- PMG generator – 3 position phase switch
- PMG generator – 4 position phase switch
- Super start generator – 3 position phase switch (requires MMG230 trailer)
- Super start generator – 4 position phase switch (requires MMG230 trailer)
- DVR2000E generator – 3 position phase switch
- DVR2000E generator – 4 position phase switch

### UNIT CONTROL OPTIONS

- Analog gauges

### ELECTRICAL CONTROL OPTIONS

- Buck transformer for 120 volts at 480 VAC
- Auxiliary strobe/audible indication for soft and hard alarm conditions
- Control panel light
- Interior light
- Battery charger – 2 amp trickle

### ENCLOSURE OPTIONS

- Fire extinguisher
- Rear stabilizer jacks (2)

### TRAILER OPTIONS

- Tandem axle w/electric brakes
- Adjustable height 2 5/16" ball hitch
- 6 pin or 7 spade electrical connectors
- Spare tire/wheel kit