

### 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 approved
- Steel, single wall fuel tank
  - 342 gal. (1295 L) 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 (49°C) ambient
- Low coolant shutdown
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- Disposable air filter - paper element
- Utilizes DOC / DPF exhaust filter
- Variable Geometry Turbocharger (VGT)
- 60 Hz engine/generator
- Electronic isochronous governing

### GENERATOR

- Marathon Electric®
  - Brushless
  - 4 pole
  - Class H insulation
- Voltage regulation +/- 0.5% with Magnum PM600 Voltage Regulator

### SYSTEM OUTPUTS

- 3 position selector switch
  - 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

- Power Zone® controller and display
  - Backlit, 800 x 480 pixel resolution color display
  - -40°F to 185°F (-40°C to 85°C) 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
      - After treatment 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%
      - Over speed protection: shutdown – 115%
      - Oil pressure: warning – 25 psi; shutdown – 20 psi
      - Coolant temperature: warning – 220°F (104°C); shutdown – 230°F (110°C)
      - 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%

**SYSTEM CONTROLS (continued)**

- Inputs/Outputs
- Auto Schedule
- Status
- Configuration of controller, firmware and connections

**ELECTRICAL CONTROLS**

- Remote start / stop contacts located in 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
- 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)
  - (3) 125 / 250V 50 Amp, 3 pole, 4 wire Twistlock (Non-NEMA 6369)
- Voltage adjustment integrated into Power Zone controller, +/- 10%
- 720CCA wet cell battery

**ENCLOSURE**

- Aluminum, sound attenuated enclosure
  - UV & fade resistant, high temperature cured, white polyester powder paint
  - Insulated and baffled
  - 68 dB(A) @ 23 ft. (7 m) – prime power
- Fully lockable enclosure including doors and fuel fill
- 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 in. (76.2 mm) lunette ring hitch
- (2) 6000 lb. (2722 kg) axles with surge brakes
- 5000 lb. (2268 kg) tongue jack with footplate
- 7.50x16E-6-W tubeless tires – 10 ply

**WEIGHT & 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 1.96 m)
- 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**

2 Years / 2000 Hours

**CERTIFICATIONS**

CSA Certified