

ENGINE

- John Deere® 3029HFG03 - turbocharged, aftercooled diesel engine
 - Prime – 44 hp, 33kWm @ 1800 rpm
 - Standby – 48 hp, 36 kWm @ 1800 rpm
 - 3 cylinder
 - 2.9 L displacement
 - EPA Final Tier 4 approved
 - **Engine and generator performance are dependent upon 70 hours of break in.*
- Polyethylene, single wall fuel tank
 - 100 gal. (378.5 L) capacity
 - 31 hr. run time – full load
 - Fuel tank built into skid of generator set
 - 120% Containment
- Cooling system capable of operating at 120°F (49°C) ambient
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- Disposable air filter - paper element
- Air cleaner restriction indicator
- 60 Hz engine/generator
- Electronic isochronous governing
- Idle switch

GENERATOR

- Marathon Electric® SUPERSTART™
 - 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
- 30 kW / 30 kVA – standby, single phase
- 27 kW / 27 kVA – prime, single phase
- 31 kW / 39 kVA – standby, three phase
- 29 kW / 36 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
- 125A 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)
 - (2) 125 / 250V 50 Amp, 3 pole, 4 wire Twistlock (Non-NEMA 6369)
- Voltage adjustment integrated into Power Zone controller, +/- 10%
- 720 CCA wet cell battery
- Battery disconnect
- Panel lighting for breakers, lugs, and selector switch

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
 - 68 dB(A) at 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
- Interior Cabinet lighting

TRAILER

- DOT approved tail, side, brake, and directional lights - LED
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 2" (50.8 mm) ball hitch
- 5000 lb. (2268 kg) axle
- 2000 lb. (907 kg) tongue jack with footplate
- P225/75 R15 tubeless tires – 6 ply

WEIGHT & DIMENSIONS

- Skid mounted
 - o Dry weight: 3125 lbs (1418 kg)
 - o Operating weight: 3860 lbs (1751 kg)
 - o 95 x 39 x 65 in (2.41 x 0.99 x 1.65 m)
- Trailer mounted
 - o Dry weight: 3725 lbs (1690 kg)
 - o Operating weight: 4460 lbs (2023 kg)
 - o 152 x 58 x 83 in (3.81 x 1.45 x 2.11 m)

WARRANTY

2 Years / 2000 Hours

CERTIFICATIONS

CSA Certified