

### ENGINE

- Generac® G21.9L - turbocharged, after-cooled
- Fuel Type(s): Pipeline Natural Gas, Liquid Propane, Wellhead Gas (power de-rates apply based on fuel composition, contact factory)
- Engine Power, NG Fuel – Continuous - hp (kW): 465 (347)
- Engine Power, NG Fuel – Prime - hp (kW): 558 (416)
- Operating Speed – rpm: 1800
- Displacement – in3 (L): 1336.42 (21.9)
- Cylinders – Qty: 12
- Cylinder-specific knock sensing
- Automatic spark timing adjustment
- Bore – in (mm): 5.03 (128)
- Stroke – in (mm): 5.6 (142)
- Fuel Consumption, Continuous @ 100% load – ft3/hr (m3/hr): 3992 (113.1)
- Fuel Consumption, Prime @ 100% load – ft3/hr (m3/hr): 4563 (129.2)
- Oil Consumption – qt. (L): 0.96 (0.91) every 24 hours of operation
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- In-line engine block heater
- Disposable air filter - paper element
- Air filter restriction indicator
- 50-60 Hz switchable



### CAPACITIES

- Coolant (incl. engine) – qt (L): 92 (87)
- Oil (incl. filter) – US gal (L): 38 (144)
- 1500 hour service interval
- 125% fluid containment
- Cooling system capable of operating at 120°F (49°C) ambient
- Variable pitch fan to auto adjust for cooling and heating needs

### GENERATOR

- LSA 47.2 S4
- Rise °C: 105
- PMG Generator - critical grade power quality
- Class H insulation
- Electronic isochronous governing

### SYSTEM OUTPUT

- 360 kW / 450 kVA – prime, three phase
- 300 kW / 375 kVA – continuous, three phase
- Amps, three phase, continuous A: 451 @ 480V
- Amps, three phase, prime A: 541 @ 480V
- Power Factor: 0.8

### AC DISTRIBUTION

- Circuit Breaker Type / Size A: Power / 600
- Voltage Regulation: Digital,  $\pm 0.5\%$
- Voltages Available: Three phase: 277/480

### SYSTEM CONTROLS

- Generac/Motortech Compatible with ComAp, Deep Sea (with additional DSE-123 module) and Grid
- Motortech® controller and display
  - Backlit, 320 x 240 pixel resolution color display
  - $-40^{\circ}\text{F}$  to  $158^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ ) operating temperature range
  - Automatic coarse voltage adjustment
- Push buttons for easy operation
  - Manual or Auto Start
  - Engine Start
  - Engine Stop/Reset
  - Alarm Mute
  - Circuit Breaker Operation
  - History
  - Operator Screens
    - Main
    - Fuel Selection
    - Generator
    - Bus
    - Power Output
    - Synchronization
    - Statistics
    - Power Management
    - Analog Inputs I
    - Analog Inputs II
    - Analog Inputs III
    - Knock Detection
    - Ignition Voltage
    - Ignition Information
    - Digital Inputs/Outputs

### SYSTEM CONTROLS (continued)

- Alarms
  - Warning
  - Shutdown
  - Electrical Trip
  - Engine
- Alarm list – warnings / shutdowns; 250 event history log – date/time stamp
  - Over speed protection: shutdown – 115%
  - Oil pressure: warning – 40 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%
  - Low coolant level shutdown
- Key load share features
  - Up to 32 additional gensets
  - Digital inter-genset communication via CAN bus
  - Non-MGG450 controllers communication via Analog bridge
  - Sequential set start
  - Manual voltage/frequency adjustment
  - Generator load demand
  - Automatic hours run balancing
  - Dead bus sensing
  - Bus failure detection
  - Direct governor and AVR control
  - Volts and frequency matching
  - kW and kVAr load sharing

### 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
- Output ground connection lug inside lug box
- 600A motorized main breaker with shunt trip
- Convenience receptacles with individual breakers
  - (2) 120V 20 Amp GFCI duplex outlets (NEMA 5-20R type)
  - Buck Transformer kit – Provides 120V at GFCI outlets when in 277/480V
- Battery Type – Group Number: 8D
  - Battery Voltage, quantity per unit: 12V (2)

- Battery Voltage, series connection: 24V
- Battery Rating: 1100CCA

### ENCLOSURE

- Aluminum, sound attenuated enclosure
  - UV & fade resistant, high temperature cured, white polyester powder paint
  - Insulated and baffled
  - 84 dB(A) @ 23 ft. (7 m) , 77°F (25°C) – continuous power
  - 80 dB(A) @ 23 ft. (7m), 77°F (25°C) – continuous power w/ variable pitch fan installed
- Fully lockable enclosure
- 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
- Integrated single point lift structure; fork pockets in frame
- 4-point standard lifting
- Push-Pull-Drag points at all 4 corners

### 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
- (3) 7000 lb. (3175 kg) axles
- Electric brakes
- Tongue jack with footplate
- ST225/75D15D tubeless tires – 6H
- Max tire pressure – psi: 105
- Rear stabilizer jacks
- NATM compliant

### WEIGHT & DIMENSIONS

Skid mounted

- Operating weight: 12,110 lbs. (5,493 kg)
- 204 x 72 x 101 in. (5.18 x 1.83 x 2.57 m)

Trailer mounted

- Operating weight: 15,281 lbs. (6,931 kg)
- 253 x 102 x 131 in. (6.43 x 2.59 x 3.33 m)

### PRODUCT WARRANTY

1 Year / 2000 Hours - *consult factory for details*

**CERTIFICATIONS**

*UL2200 and CSA22.2 rated*

*CSA B149 compliant fuel system*

*EPA certified*

*49 state emissions compliant*