Standby Power Rating
220 kW, 275 kVA, 60 Hz

Prime Power Rating
200 kW, 250 kVA, 60 Hz

Codes and Standards
Generac Magnum products are designed to the following standards:

- CSA
- NATM
- TIER 4 FINAL EMISSIONS
- ISO 8528-5

Power When and Where You Need It
Generac Magnum mobile diesel generators are designed and engineered to power a variety of projects, in the most extreme environments. Gensets are configured to meet customer needs, including choice of containment, cold weather packages, trailer options, and more.

Generac Magnum mobile diesel generators are manufactured to deliver reliable power, when and where you need it.
### STANDARD FEATURES

**ENGINE SYSTEM**
- John Deere® 6068HFG06 – turbocharged + after-cooled, diesel engine
- Six cylinder
- 415 in³ (6.8 L) displacement
- Tier IV Final (SCR + DOC)
- Rubber vibration dampers isolate engine/generator from frame
- Disposable air filter – paper element
- Variable Geometry Turbocharger (VGT)
- Electronic isochronous governing
- Variable speed fan drive

**Fuel System**
- Steel, double wall fuel tank
- 110% fluid containment
- 358 gal (1355 L) diesel tank capacity
- Fuel tank built into skid of generator set
- 34.4 gal (130.4 L) DEF tank capacity
- Fuel consumption at prime:
  - 100% – 13.9 gph (52.8 Lph)
  - 75% – 10.4 gph (39.4 Lph)
  - 50% – 7.2 gph (27.3 Lph)
- DEF consumption:
  - 78 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

**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
- Two 8000 lb (3629 kg) axes with surge brakes
- 10000 lb (4535 kg) tongue jack with footplate
- ST215/75R17.5 tubeless tires – 10 ply

**WARRANTY**
- 1 year unlimited
- 2 years / 2000 hours

### CERTIFICATIONS

**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
- Aftertreatment inlet/outlet temperature
- Ash/soot levels
- Generator diagnostic display
- System kW output display
- Line output and 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%
  - Overspeed protection: shutdown – 115%
  - Oil pressure: warning – 25 psi; shutdown – 20 psi
  - Coolant temperature: warning – 230 °F (110 °C); shutdown – 235 °F (113 °C)
  - Battery voltage: over – 15VDC; under – 11VDC
  - Generator over voltage: warning – 110%; electrical trip – 125%
  - Generator under voltage: warning – 91.4%; shutdown – 70%
  - Generator over frequency: warning – 102.5%; electrical trip – 110%
  - Generator under frequency: warning – 95%; electrical trip – 90%

**SYSTEM OUTPUTS**
- 3-position selector switch (lockable)
  - Single phase – 120 / 240V Zig Zag
  - Three phase – 120 / 208V Low Wye
  - Three phase – 277 / 480V High Wye
- 194 kW / 194 kVA – standby, single phase
- 183 kW / 183 kVA – prime, single phase
- 220 kW / 275 kVA – standby, three phase
- 200 kW / 250 kVA – prime, three phase

**GENERATOR**
- 60 Hz engine/generator
- Marathon Electric
  - Brushless
  - 4-pole
  - Class H insulation
- Voltage regulation ± 1.0% with PM600 Voltage Regulator

**ENCLOSURE**
- Aluminum, sound attenuated enclosure
  - UV and fade resistant, high temperature cured, white polyester powder paint
- Insulated and baffled
  - 78 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

**CERTIFICATIONS**
- CSA certified

**ELECTRICAL CONTROLS**
- Remote start/stop contacts located in receptacle 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
- 900A main breaker with shunt trip
- Convenience receptacles with individual breakers (restricted use in high wye mode)
  - Two 120V 20 amp GFCI duplex outlets – (NEMA 5-20R type)
  - Three 125/250V 50 amp, 3-pole, 4-wire Twist-lock (Non-NEMA 6369)
- Voltage adjustment integrated into Power Zone controller, ± 10%
- Two 12V / 1000 CCA wet cell batteries
- Battery disconnect switch
OPTIONS

ENGINE SYSTEM
- Block heater
- Fuel filter heater
- CCV heater
- 60/40 coolant
- Positive air shutdown
- Engine oil reservoir
- Cam locks
- 10A battery charger

TRAILER
- Full size spare tire
- Tool box / storage bin
- 2-5/16" (5.9 cm) ball hitch
- Electric brakes

CABINET
- Auxiliary fuel connection for day tank
- 36 hour tank
- Fire extinguisher

CONTROL SYSTEM
- 4-position selector switch
- PMG/DVR
- Paralleling
- Buck transformer

RATING DEFINITIONS

Standby – Applicable for varying emergency load for the duration of a utility power outage.
Prime – Applicable for suppling power to a varying load in lieu of utility for an unlimited amount of running time.

*Consult factory for availability
## ENGINE SPECIFICATIONS

### General
- **Make**: John Deere 6068HFG06
- **EPA Emissions Compliance**: Tier IV Final
- **Aftertreatment System**: SCR / DOC
- **Cylinder #**: 6
- **Type**: In-line
- **Displacement**: 415 in³ (6.8 L)
- **Bore – in (mm)**: 4.17 (106)
- **Stroke – in (mm)**: 5.0 (127.0)
- **Compression Ratio**: 17.2:1
- **Intake Air Method**: Turbo / Air to Air

### Engine Governing
- **Governor**: Electronic
- **Frequency Regulation (Steady State)**: 2%

### Lubrication System
- **Oil Pump Type**: Gear
- **Oil Filter Type**: Spin-on cartridge
- **Crankcase Capacity – qts (L)**: 34.3 (32.5)

### Cooling System
- **Cooling System Type**: Pressurized closed
- **Water Pump Type**: Belt driven
- **Fan Type**: Pusher
- **Fan Speed (rpm)**: 2190
- **Fan Diameter – in (mm)**: 28 (710)
- **Coolant System Capacity – gal (L)**: 11 (42)

### Fuel System
- **Fuel Type**: Ultra low sulfur diesel
- **Fuel Specifications**: EN 590 / ASTM D975
- **Fuel Filtering (microns)**: 2
- **Fuel Inject Pump Make**: Denso HP6
- **Fuel Pump Type**: Engine driven – belt
- **Injector Type**: Electronic
- **Engine Type**: Direct inject
- **Fuel Supply Line – in (mm)**: 0.375 (9.5)
- **Fuel Return Line – in (mm)**: 0.375 (9.5)

### Engine Electrical System
- **System Voltage**: 12VDC
- **Battery Charger Alternator**: STD
- **Battery Size**: 1000 CCA
- **Battery Voltage**: 12VDC (2)
- **Ground Polarity**: Negative

## ALTERNATOR SPECIFICATIONS
- **Standard Model**: 433CSL6216
- **Poles**: 4
- **Field Type**: Rotating
- **Insulation Class – Rotor**: H
- **Insulation Class – Stator**: H
- **Total Harmonic Distortion**: < 5%
- **Telephone Interference Factor (TIF)**: < 50

### Standard Excitation
- **Brushless
- **Bearings**: Double shielded, pre-lubricated
- **Coupling**: Direct, flexible disc
- **Prototype Short Circuit Test**: Yes
- **Voltage Regulator Type**: AVR
- **Number of Sensed Phases**: 1
- **Regulation Accuracy (Steady State)**: ± 1%
OPERATING DATA

POWER RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase 120/240VAC @ 1.0pf (kW/kVA)</td>
<td>194 kW / 194 kVA</td>
<td>183 kW / 183 kVA</td>
</tr>
<tr>
<td>Twin-phase 120/240VAC @ 0.8pf (kW/kVA)</td>
<td></td>
<td>200 kW / 250 kVA</td>
</tr>
<tr>
<td>Twin-phase 277/480VAC @ 0.8pf (kW/kVA)</td>
<td></td>
<td>200 kW / 250 kVA</td>
</tr>
</tbody>
</table>

* Circuit breaker limited

STARTING CAPABILITIES (sKVA)

<table>
<thead>
<tr>
<th></th>
<th>208 VAC</th>
<th>480 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SuperStart</td>
<td>32%</td>
<td>25%</td>
</tr>
</tbody>
</table>

FUEL CONSUMPTION RATES*

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
<th>Prime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Load</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25%</td>
<td>4.7 (17.8)</td>
<td>4.4 (16.7)</td>
</tr>
<tr>
<td>50%</td>
<td>7.8 (29.5)</td>
<td>7.2 (27.3)</td>
</tr>
<tr>
<td>75%</td>
<td>11.4 (43.2)</td>
<td>10.4 (39.4)</td>
</tr>
<tr>
<td>100%</td>
<td>15.4 (58.3)</td>
<td>13.9 (52.6)</td>
</tr>
</tbody>
</table>

* Circuit breaker limited

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Mobile Products Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665, ISO3046, SAE J1228, SAE J1995, and DIN6271 standards.
**DIMENSIONS AND WEIGHTS***

<table>
<thead>
<tr>
<th>Run Time Hours</th>
<th>Usable Capacity Gal (L)</th>
<th>L x W x H in (m)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skid</td>
<td>24</td>
<td>343 (1297)</td>
<td>145 (3.7) x 60 (1.5) x 85 (2.1)</td>
</tr>
<tr>
<td>Trailer</td>
<td>24</td>
<td>343 (1297)</td>
<td>208 (5.3) x 86 (2.2) x 104 (2.6)</td>
</tr>
</tbody>
</table>

* All measurements are approximate and for estimation purposes only.

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Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Mobile Products Authorized Service Dealer for detailed installation drawings.