Standby Power Rating 144 kW, 180 kVA, 60 Hz

Prime Power Rating 120 kW, 150 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

Generac Magnum products are designed to the following standards:



CSA Certified



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® 6068HFG05 turbocharged + aftercooled, diesel engine
- Six cylinder
- 415 in³ (6.8 L) displacement
- Tier 4 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, single wall fuel tank
- 358 gal. (1355 L) diesel tank capacity
 - 39 hr run time full load
- 34.4 gal (130.4 L) DEF tank capacity
- DEF consumption rate:
 - 100% standby 0.34 gph (1.3 Lph)

COOLING SYSTEM

- Capable of operating at 120 °F (49 °C) ambient
- Low coolant shutdown
- · Radiator and oil drains plumbed to exterior

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
- 114 kW / 114 kVA standby, single phase
- 108 kW / 108 kVA prime, single phase
- 144 kW / 180 kVA standby, three phase
- 120 kW / 150 kVA prime, three phase

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
 - 75 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 7,000 lb (3175 kg) axles with surge brakes
- 10,000 lb (4536 kg) tongue jack with footplate
- ST215/75R17.5 tubeless tires 10 ply

WARRANTY

- 2 year limited warranty or 2000 hours
 - · Unlimited hours covered in first year

CERTIFICATIONS

CSA Certified

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

- Generator diagnostic display
 - · System kW output display
 - · Line output and frequency display
- Alarms
 - Warning
 - Shutdown
 - Electrical Trip
 - Engine
- Alarm list warnings/shutdowns; 250 even history log – date/time stamp
 - Fuel level: warning 15%; shutdown 5%
 - Overspeed protection: shutdown 115%
 - Oil pressure: warning 24 psi (165.5 kPa); shutdown – 19 psi (131.0 kPa)
 - 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%
- Inputs/outputs
- Auto schedule
- Status
- Configuration of controller, firmware, and connections

ELECTRICAL CONTROLS

- Remote start/stop contacts located in the 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
- 600A 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 240V 50 amp, 3-pole, 4-wire Twistlock (Non-NEMA 6369)
- Voltage adjustment integrated into Power Zone controller, ± 10%
- One 12V / 1,000 CCA wet cell battery



EPA Emissions Certification: Tier IV Final

OPTIONS

POWERTRAIN SYSTEM

- · Block heater
- · Fuel filter heater
- CCV heater
- 60/40 coolant
- · Positive air shutdown
- Cam locks
- · 10A battery charger

FUEL SYSTEM

• 110% fluid containment

TRAILER

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

CABINET

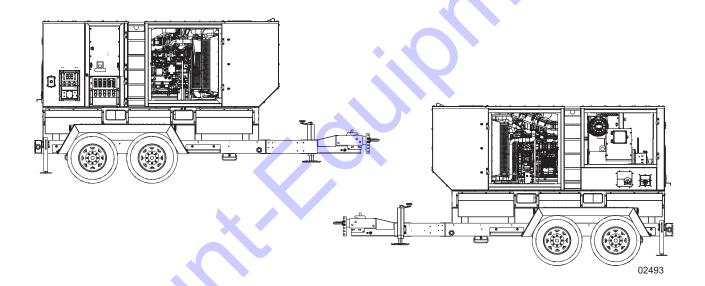
- · Auxiliary fuel connection for day tank
- 36 hour tank
- Fire extinguisher

CONTROL SYSTEM

- 4-position selector switch
- PMG/DVR
- Paralleling
- · Buck transformer
- Battery disconnect switch

GENERATOR SYSTEM

SuperStart



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



MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier IV Final



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

Make	John Deere 6068HFG04
EPA Emissions Compliance	Tier IV Final
After-treatment System	SCR / DOC
Cylinder #	6
Туре	In-line
Displacement	415 in ³ (6.8L)
Bore – in (mm)	4.17 (106)
Stroke – in (mm)	5.0 (127.0)
Compression Ratio	17.2:1
Intake Air Method	Turbocharged + Aftercooled

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)	2,190
Fan Diameter – in (mm)	27.9 (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 – gear
Injector Type	High pressure common rail
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	1,000 CCA	
Battery Voltage	12VDC (1)	
Ground Polarity	Negative	

ALTERNATOR SPECIFICATIONS

363CSL1607 431CSL6208
4
Rotating
Н
Н
< 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%		



EPA Emissions Certification: Tier IV Final

OPERATING DATA

POWER RATINGS

	Star	ndby	Prir	me	
Single-phase 120/240VAC @ 1.0pf (kW/kVA)	114 kW / 114 kVA	Amps: 473	108 kW / 180 kVA	Amps: 450	
Three-phase 120/208VAC @ 0.8pf (kW/kVA)	144 kW / 180 kVA	Amps: 503	120 kW / 150 kVA	Amps: 416	
Three-phase 120/240VAC @ 0.8pf (kW/kVA)	144 kW / 180 kVA	Amps: 433	120 kW / 150 kVA	Amps: 360	
Three-phase 277/480VAC @ 0.8pf (kW/kVA)	144 kW / 180 kVA	Amps: 218	120 kW / 150 kVA	Amps: 180	

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

	208 VAC	480 VAC
Standard	TBA	TBA
SuperStart	23%	21%

FUEL CONSUMPTION RATES*

Diesel – gal/hr (l/hr)

Percent Load	Standby	Prime
25%	3.6 (13.6)	3.4 (12.9)
50%	5.8 (22.0)	5.25 (19.9)
75%	7.8 (29.5)	7.1 (26.9)
100%	9.5 (36.0)	8.7 (33.0)

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.

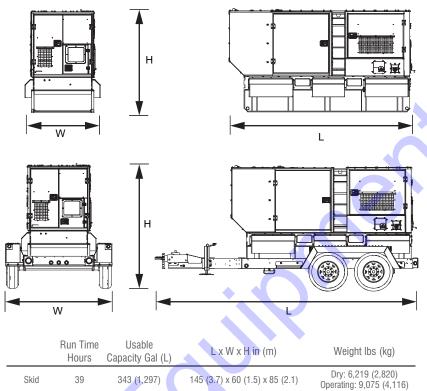


GENERAC MAGNUM

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier IV Final

DIMENSIONS AND WEIGHTS*



Dry: 8,184 (3,712) 343 (1,297) 208 (5.3) x 86 (2.2) x 104 (2.6) Trailer 39 Operating: 11,040 (6,032)



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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.

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^{*} All measurements are approximate and for estimation purposes only.