

Acct# wmliftmobgen (Trailer Mount) #1
BuyBoard Quote 038-9000 - 70-6500 ASSOCIATED SUPPLY COMPANY, INC.

THE FOLLOWING DETAILS SHALL BE PROVIDED WITH ANY BUYBOARD PURCHASE ORDER (FAX PURCHASE ORDER TO 800-211-5454)

BuyBoard Vendor: Associated Supply Company, Inc.

San Antonio

Phone: 210-333-8000

Fax: 210-333-6137

Government Agency: City of Seguin

Ship To: 3027 N Austin St

Seguin, Texas 78155

Contacts' Name: Rod Ramirez

Email: rramirez@seguintexas.gov

Product Description: Generac MDG100DF4

Prepared By: Ross Loewe

Mobile: 210-218-8547

Email: rloewe@ascoeq.com

Date Prepared: 10/30/2020

Bill To: City of Seguin

Phone:

Fax:

BuyBoard Contract: 597-19

I. Price List Dated: 10/29/2020

Base Price: \$ 88,200.00

II: Base Bid Options (Itemized Below)

4-Position phase switch	Included
Trailer Mounted	Included
-- Surge Brakes	Included
-- Single axle	Included
-- 2 5/16" Ball Hitch	Included

SUB-TOTAL: \$ -

III. SUB-TOTAL OF I & II

IV. BuyBoard Discount: 20.00% \$ 17,640.00

V: NON-BASE OPTIONS

SUB-TOTAL: \$ -

VI: UNPUBLISHED OPTIONS ADDED TO CONTRACT PRICE (SUBTOTAL OF COL1 & COL 2)

VII: TOTAL IV + VI

VIII: QUANTITY ORDERED UNITS:

1

IX: TRADE-IN OR OTHER CREDIT(S):

\$ 10,000.00

ASCO One Time Courtesy Discount

SUB-TOTAL: \$ -

Options List Price Total: \$ -

\$ 88,200.00

BUYBOARD CONTRACT PRICE: \$ 70,560.00

Non-Base Options (%) = 0

\$ -

\$ -

\$ -

SUB-TOTAL: \$ -

\$ -

\$ 70,560.00

\$ 70,560.00

\$ 10,000.00

TOTAL: \$ 60,560.00

FAX ALL PURCHASE ORDERS TO BUYBOARD AT 800-211-5454

MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC®

MOBILE

Standby Power Rating

85 kW, 106.25 kVA, 60 Hz

Prime Power Rating

80 kW, 100 kVA, 60 Hz

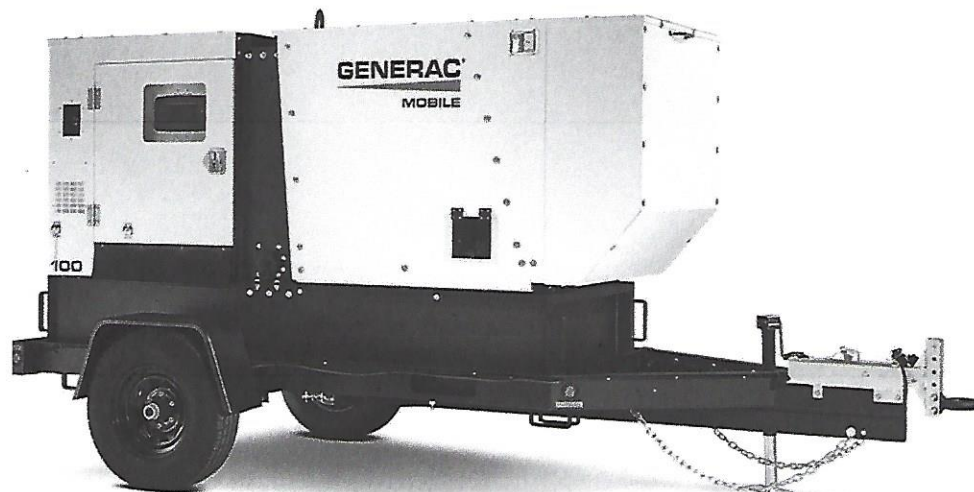


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Codes and Standards

Generac Mobile products are designed to the following standards:



CSA



NATM



TIER 4 FINAL EMISSIONS



ISO 8528-5

Power When and Where You Need It

Generac 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.

MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC®

MOBILE

STANDARD FEATURES

ENGINE SYSTEM

- John Deere® 4045HFG04A
- 4 cylinder
- Turbocharged
- 275 in³ (4.5 L) displacement
- EPA Final Tier 4
- Power @ 1,800 rpm – hp (kW):
 - Prime: 122 (90)
 - Standby: 133 (99)

Fuel System

- Fuel tank capacity – gal (L):
 - Total: 165 (625)
 - Usable: 146 (552)
- Maximum run time @ 100% load: 24 h
- Fuel consumption @ prime – gal/h (L/h):
 - 25% load: 1.90 (6.37)
 - 50% load: 3.17 (12.02)
 - 75% load: 4.51 (17.07)
 - 100% load: 6.01 (22.72)

Cooling System

- Capable of operating at 107 °F ambient
- Oil filter: Spin-on cartridge
- Air filter: Disposable – paper element
- Radiator and oil drains plumbed to exterior

System Outputs

- Voltage selection switch: 3-position, lockable
- Electrical power output – kW (kVA):
 - 1-phase standby: 85 (85)
 - 1-phase prime: 77 (77)
 - 3-phase standby: 85 (106)
 - 3-phase prime: 80 (100)

GENERATOR

- 60 Hz engine/generator
- Marathon Electric® 362CSL1606
 - 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
 - 74 dB(A) @ 23 ft (7 m) @ prime power
- Fully lockable – including doors, fuel fill, and DEF fill
- Exterior emergency stop switch
- Central lifting point
- Multi-lingual operating and safety decals

- Document holder with owner's manual – includes AC and DC wiring diagrams

TRAILER

- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Surge brakes
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3 in (76.2 mm) ring hitch
- Single axle – 6,000 lb (2,722 kg)
- 2,000 lb (906 kg) tongue jack w/footplate
- Tires: 15 in (381 mm), 10-ply, tubeless, load range E

WARRANTY

- 2 year limited or 2,000 hours
 - Unlimited hours covered in first year

CERTIFICATIONS

- CSA certified

SYSTEM CONTROLS

Power Zone® Controller And Display

- Backlit, 800×480 pixel resolution color display
- -40—185 °F (-40—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 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%
 - Over speed protection: shutdown – 115%
 - Oil pressure: warning – 25 psi (172.4 kPa); shutdown – 20 psi (137.9 kPa)
 - Coolant temperature: warning – 230 °F (110 °C); shutdown – 235 °F (113 °C)
 - Battery voltage: over – 15 VDC; under – 11 VDC
 - 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
- View controller functional parameters (configuration, firmware version, connections)

ELECTRICAL CONTROLS

- Remote start/stop contacts 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
- 400 A main breaker with shunt trip
- Convenience receptacles with individual breakers (restricted use in high wye mode)
 - Two 120 V, 20 A, GFCI, duplex outlets (NEMA 5-20R type)
 - Three 125/250 V, 50 A, 3-pole, 4-wire, twistlock outlets (Non-NEMA 6369)
- One 12 V, 720 CCA, wet cell battery

MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC® | **MOBILE**

OPTIONS*

ENGINE SYSTEM

- Two fuel filter heaters
- Oil pan heater
- Battery heater
- CCV multi-heater system
- 60/40 coolant
- Positive air shutdown

FUEL SYSTEM

- 110% fluid containment
- Leak detection
- Extended run fuel and DEF system

TRAILER

- Electric brakes
- Tandem axle
- Stabilizer jacks
- Tool box/storage bin
- 2 in ball hitch
- 2-5/16 in (5.9 cm) ball hitch
- Full-size spare tire

CABINET

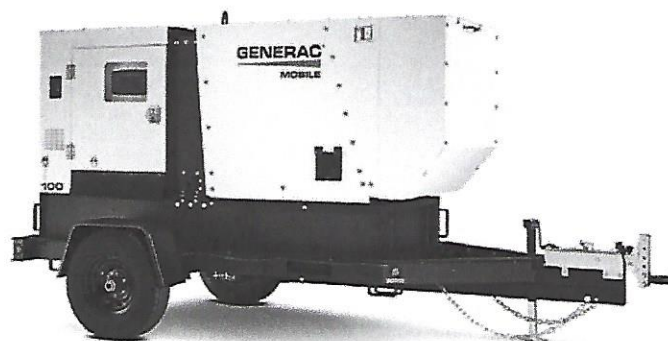
- Fire extinguisher
- Control panel light
- Interior lights

CONTROL SYSTEM

- 4-position phase switch
- PMG/DVR
- Paralleling
- Buck transformer
- Battery disconnect switch
- Cam locks
- 10 A battery charger

GENERATOR SYSTEM

- SuperStart



RATING DEFINITIONS

Standby: Applies to varying emergency load for the duration of a utility power outage.

Prime: Applies to supplying power to a varying load in lieu of utility for an unlimited amount of running time.

*Consult factory for availability

MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make (Model)	John Deere (4045HFG04A)
EPA Emissions Compliance	Final Tier 4
After-Treatment System	DOC and SCR
Cylinders: Configuration-Qty	Inline-4
Displacement: in ³ (L)	275 (4.5)
Bore: in (mm)	4.2 (106)
Stroke: in (mm)	5.0 (127)
Compression Ratio	17:1
Intake Air Method	Turbo/air-to-air, after-cooled

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	2%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Spin-on cartridge
Crankcase Capacity: qt (L)	15.9 (15)

Cooling System

Cooling System Type	Radiator and CAC
Water Pump Type	Belt driven
Fan Type	Pusher
Fan Speed: rpm	1,800
Fan Diameter: in (mm)	23.2 (590)
Cooling System Capacity: qt (L)	22.0 (20.8)

Fuel System

Fuel Type	Ultra low sulfur diesel
Fuel Specifications	EN 590/ASTM D975
Fuel Filtering: μ	Primary: 10 Final: 2
Fuel Injection Pump: Make (Model)	Denso HP3
Fuel Pump Type	Engine driven – belt
Injection Type	Electronic
Engine Type	Direct Injection
Fuel Supply Line Diameter: in (mm)	.313 (8.0)
Fuel Return Line Diameter: in (mm)	.313 (8.0)

Engine Electrical System

System Voltage: VDC	12
Battery Charger Alternator	STD
Battery: CCA	750
Battery: V (Qty)	12 (1)
Ground Polarity	Negative (-)

ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362CSL1606)
Poles: Qty	4
Field Type	Rotating
Insulation Class—Rotor	H
Insulation Class—Stator	H
Total Harmonic Distortion (THD)	<3.5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Brushless

Bearings	Single bearing
Coupling	Direct, flex disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Analog
Number of Sensed Phases	1
Regulation Accuracy (Steady State)	$\pm 1\%$

MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

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GENERAC®

MOBILE

OPERATING DATA

POWER RATINGS

	Standby: KW/kVA (A)	Prime: KW/kVA (A)
1-phase, 120/240 VAC @ 1.0 pf	85/85 (320)	77/77 (354)
3-phase, 120/208 VAC @ 0.8 pf	85/106.25 (295)	80/100 (278)
3-phase, 120/240 VAC @ 0.8 pf*	85/106.25 (256)	80/100 (241)
3-phase, 277/480 VAC @ 0.8 pf	85/106.25 (128)	10/100 (120)

*Power ratings achieved through use of optional 4-position phase switch.

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip		
208 VAC		
150	vs.	28.60%

FUEL AND DEF CONSUMPTION RATES

Load	Fuel: gal/hr (L/hr)		DEF: gal/hr (L/hr)	
	@ Standby	@ Prime	@ Standby	@ Prime
25%	2.0 (7.57)	1.90 (6.37)	TBD	TBD
50%	3.46 (13.10)	3.17 (12.02)	TBD	TBD
75%	4.95 (18.75)	4.51 (17.07)	TBD	TBD
100%	6.64 (25.12)	6.01 (22.72)	TBD	0.26 (1.15)

Deration — Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult a Generac Mobile Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665, ISO3046, SAE J1228, SAE J1995, and DIN6271 standards.

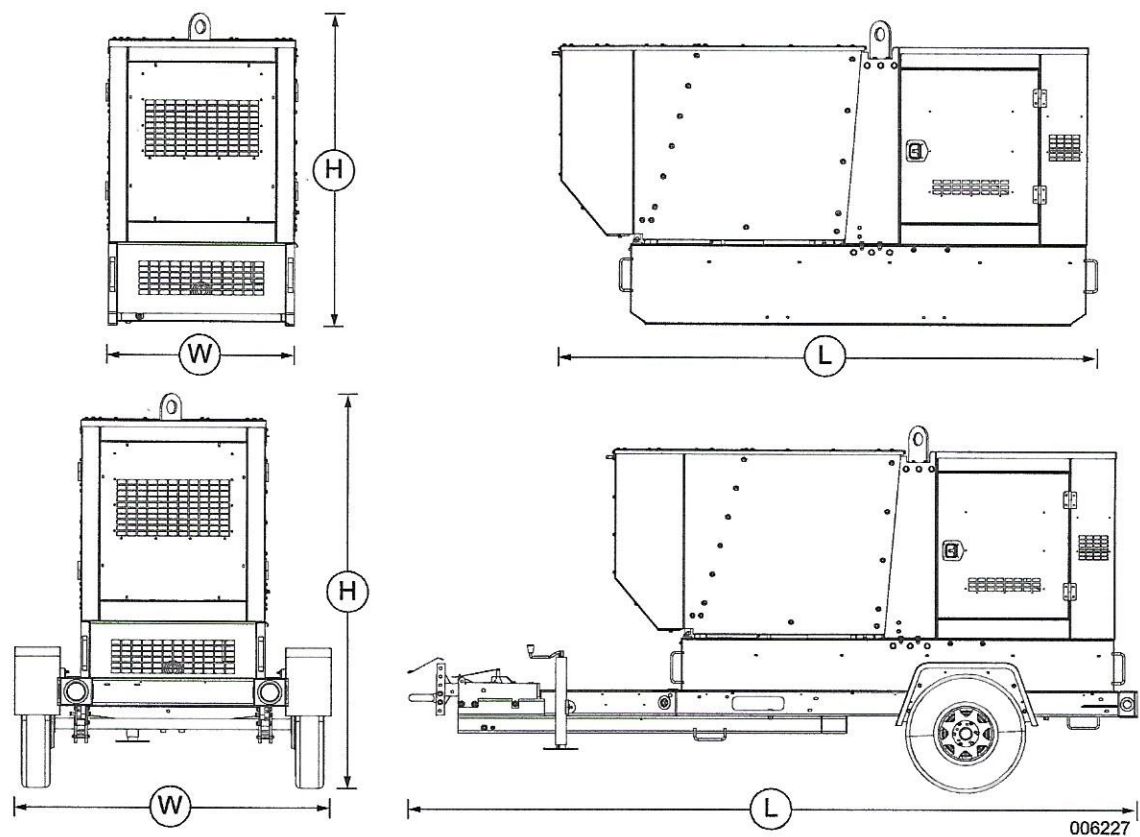
MDG100DF4 | 4.5 L | 100 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



DIMENSIONS AND WEIGHTS*



	Run Time: hr	Usable Fuel Capacity: gal (L)	Dimensions – L×W×H: in (m)	Weight: lb (kg)
Skid	24	146 (552)	119×40×62 (3.02×1.02×1.57)	Dry: 3,980 (1,805) Operating: 4,940 (2,240)
Trailer	24	146 (552)	170×69×80 (4.31×1.75×2.03)	Dry: 4,680 (2,122) Operating: 5,640 (2,555)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC MOBILE DEALER

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