

# MLG8K | 1.13L | 8.0 kVA

## MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



### Standby Power Rating

9 kW, 9 kVA, 60 Hz

### Prime Power Rating

8.1 kW, 8.1 kVA, 60 Hz



Picture shown may not reflect actual configuration.

## Codes and Standards

Generac Mobile products are designed to the following standards:



CSA



NATM



TIER 4 FINAL EMISSIONS

## 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 Mobile diesel generators are manufactured to deliver reliable power, when and where you need it.

**STANDARD FEATURES****ENGINE SYSTEM**

- Isolated Mounted Engine Supports
- Paper Element Air Filter with Safety Cartridge
- Fixed Speed Fan Drive
- Spin On Cartridge Oil Filter
- Level 1 Fan and Belt Guards
- Oil Drain Extension
- Factory Filled Oil and Coolant
- 440 CCA Wet Cell Battery

**FUEL SYSTEM**

- Fuel Tank Capacity – gal (L):
  - Total: 56.0 (212)
  - Usable: 55.8 (212)
- Fuel Cap with Lanyard
- Primary and Secondary Fuel Filters
- Fuel Level Gauge

**COOLING SYSTEM**

- Capable of Operating at 120° F (49° C) Ambient
- 50/50 Coolant (Ethylene Glycol)
- Factory Installed Radiator
- UV/Ozone Resistant Hoses
- Closed Coolant Recovery System

**GENERATOR SYSTEM**

- Brushless Excitation
- 2/3 Pitch
- Four Pole
- Class F Insulation
- Sealed Bearing
- Full Load Capacity Alternator

**CONTROL SYSTEM**

- 40 A Start Limit Breaker – Ensures No Load Condition Exists Before Starting
- Engraved Aluminum Punched and Anodized Control Panel
- Key Activated Switch with Four Positions (Glow Plugs, Off, Run, Start)
- Hour Meter
- Automatic Shutdown for High Coolant Temperature and Low Oil Pressure

**POWER DISTRIBUTION**

- Convenience Receptacles with Individual Breakers
  - (2) 120 V, 20 A, GFCI, Duplex (NEMA 5-20R)
  - (1) 240 V, 30 A, Twist lock (NEMA L6-30R)

**ENCLOSURE**

- White Polyester Powder Paint (UV and Fade Resistant and High Temperature Cured)
- Fully Lockable Enclosure
- Exterior Emergency Stop Switch
- Multi Lingual Operating and Safety Decals
- Document Holder with Owner's Manual – Includes AC and DC Wiring Diagrams
- License Plate Holder with Light
- Stainless Steel Hinges, Door Latches, and Exterior Hardware

**TRAILER**

- DOT Approved Tail, Side, Brake, and Directional Lights; Recessed Rear Lights
- Illuminated License Plate
- Transportation Tie Downs
- Safety Chains with Spring Loaded Safety Hooks
- 2 in (50.8 mm) Ball Hitch
- Single Axle 2,200 lb (998 kg) Leaf Spring
- 2,000 lb (907 kg) Tongue Jack with Footplate
- 13 in (330 mm) Tires
- ST175/80D13 Tubeless Tires 6 ply
- Single Wall Polyethylene Fenders
- 48 in (1,219 mm) Track Width
- Plug Adapter Flat 4

**WARRANTY**

- 2 Years, 2,000 Hours (Unlimited Hours Covered in First Year)

**CONFIGURABLE OPTIONS\***

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**ENGINE SYSTEM**

- Positive Air Shutoff (Electronic)
- Lockable Battery Disconnect

**COLD WEATHER**

- 10A Battery Charger
- Lower Radiator Hose Heater
- Fuel Filter Heater
- 60/40 Coolant (60% Ethylene Glycol)
- 720 CCA AGM Sealed Battery

**FUEL SYSTEM**

- Fuel & Engine Fluid Containment

**ENCLOSURE**

- Central Lift Point
- 5 lb. Fire Extinguisher
- LoJack Equipment Recovery System

**TRAILER**

- Combination 2 in. Ball/2.5 in. Pintle Hitch Adjustable
- 3 in. Pintle Ring Hitch Adjustable
- 2 in. Ball BULLDOG® Adjustable
- Spare Tire and Carrier
- Plug Adapter Flat 4 to Round 7 Spade
- Rear Stabilizer Jacks
- Toolbox: Black Polymer or Aluminum, 49×15×18.5 in (125×38×47 cm)

**RATING DEFINITIONS**

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*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.

**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

**General**

|                          |                              |
|--------------------------|------------------------------|
| Make                     | Kubota D1105-E3BG            |
| EPA Emissions Compliance | Tier IV Final                |
| Cylinder #               | 3                            |
| Type                     | In Line                      |
| Displacement             | 68.5 in <sup>3</sup> (1.2 L) |
| Bore – in (mm)           | 3.27 (83)                    |
| Stroke – in (mm)         | 3.64 (92.4)                  |
| Compression Ratio        | 17.6:1                       |
| Intake Air Method        | Naturally Aspirated          |

**Engine Governing**

|                                     |            |
|-------------------------------------|------------|
| Governor                            | Mechanical |
| Frequency Regulation (Steady State) | <5%        |

**Lubrication System**

|                              |                   |
|------------------------------|-------------------|
| Oil Pump Type                | Trochoid          |
| Oil Filter Type              | Spin-On Cartridge |
| Crankcase Capacity – qts (L) | 3.5 (3.3)         |

**Cooling System**

|                                  |              |
|----------------------------------|--------------|
| Cooling System Type              | Water Jacket |
| Water Pump Type                  | Belt Driven  |
| Fan Type                         | Pusher       |
| Fan Speed – rpm                  | 1,800        |
| Fan Diameter – in (mm)           | 12.99 (330)  |
| Cooling System Capacity – qt (L) | 4.5 (4.2)    |

**Fuel System**

|                                     |   |
|-------------------------------------|---|
| Fuel Type                           | Ultra Low Sulfur Diesel   |
| Fuel Specifications                 | ASTM Diesel Fuel Oil No.2 (JIS K2204 Gas Oil Specification No.2 or 3) |
| Fuel Pump Type                      | Gear  |
| Injector Type                       | Direct Injection  |
| Engine Type                         | Direct Injection  |
| Fuel Supply Line Diameter – in (mm) | 0.313 (7.9)   |
| Fuel Return Line Diameter – in (mm) | 0.313 (7.9)   |

**Engine Electrical System**

|                            |              |
|----------------------------|--------------|
| System Voltage             | 12 VDC       |
| Battery Charger Alternator | 60 A         |
| Battery Size               | 440 CCA      |
| Ground Polarity            | Negative (-) |

**ALTERNATOR SPECIFICATIONS**

|                                     |                                |
|-------------------------------------|--------------------------------|
| Standard Model                      | Marathon Electric 332CSA/B3018 |
| Poles                               | 4                              |
| Field Type                          | Rotating                       |
| Insulation Class Rotor              | F                              |
| Insulation Class Stator             | F                              |
| Total Harmonic Distortion           | 12%                            |
| Telephone Interference Factor (TIF) | N/A                            |

|                                    |                                 |
|------------------------------------|---------------------------------|
| Standard Excitation                | Brushless                       |
| Bearings                           | Single Bearing, Double Shielded |
| Coupling                           | Direct via Flexible Disc        |
| Prototype Short Circuit Test       | Yes                             |
| Voltage Regulator Type             | AVR                             |
| Number of Sensed Phases            | 1                               |
| Regulation Accuracy (Steady State) | ± 1%                            |

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### OPERATING DATA

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#### POWER RATINGS

|                                    | Standby: kW/kVA (A) | Prime: kW/kVA (A) |
|------------------------------------|---------------------|-------------------|
| Single Phase, 120/240 VAC @ 1.0 PF | 9/9 (37)            | 8.1/8.1 (33)      |

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#### FUEL CONSUMPTION RATES

| Load | Fuel: gal/hr (L/hr)<br>@ Prime |
|------|--------------------------------|
| 50%  | 0.35 (1.32)                    |
| 75%  | 0.53 (2.01)                    |
| 100% | 0.70 (2.65)                    |

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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 SAE J1228, SAE J1995, and DIN6271 standards.

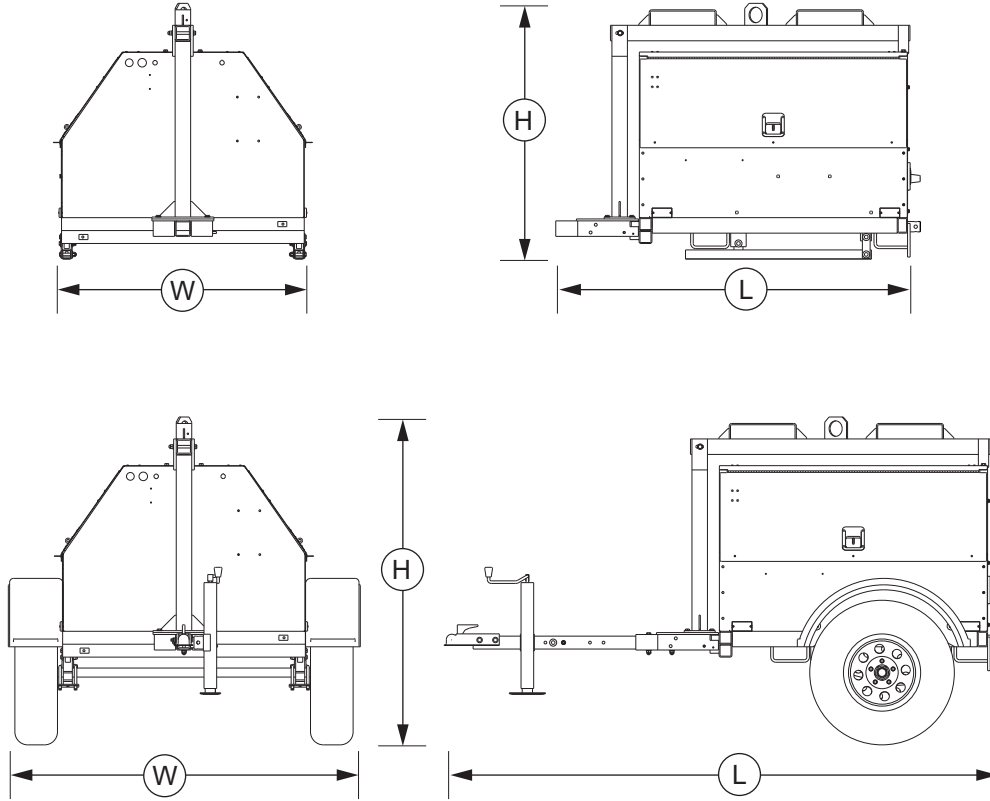
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**DIMENSIONS AND WEIGHTS\***



|         | Dimensions – L×W×H: in (m) | Weight: lb (kg)        |
|---------|----------------------------|------------------------|
| Trailer | 108×68×63 (2.74×1.73×1.61) | Dry: 1,030 (467)       |
|         |                            | Operating: 1,845 (567) |
| Skidded | 70×48×50 (1.79×1.22×1.26)  | Dry: 855 (388)         |
|         |                            | Operating: 1,075 (488) |

\* All measurements are approximate and for estimation purposes only.

**YOUR FACTORY RECOGNIZED GENERAC MOBILE DEALER**