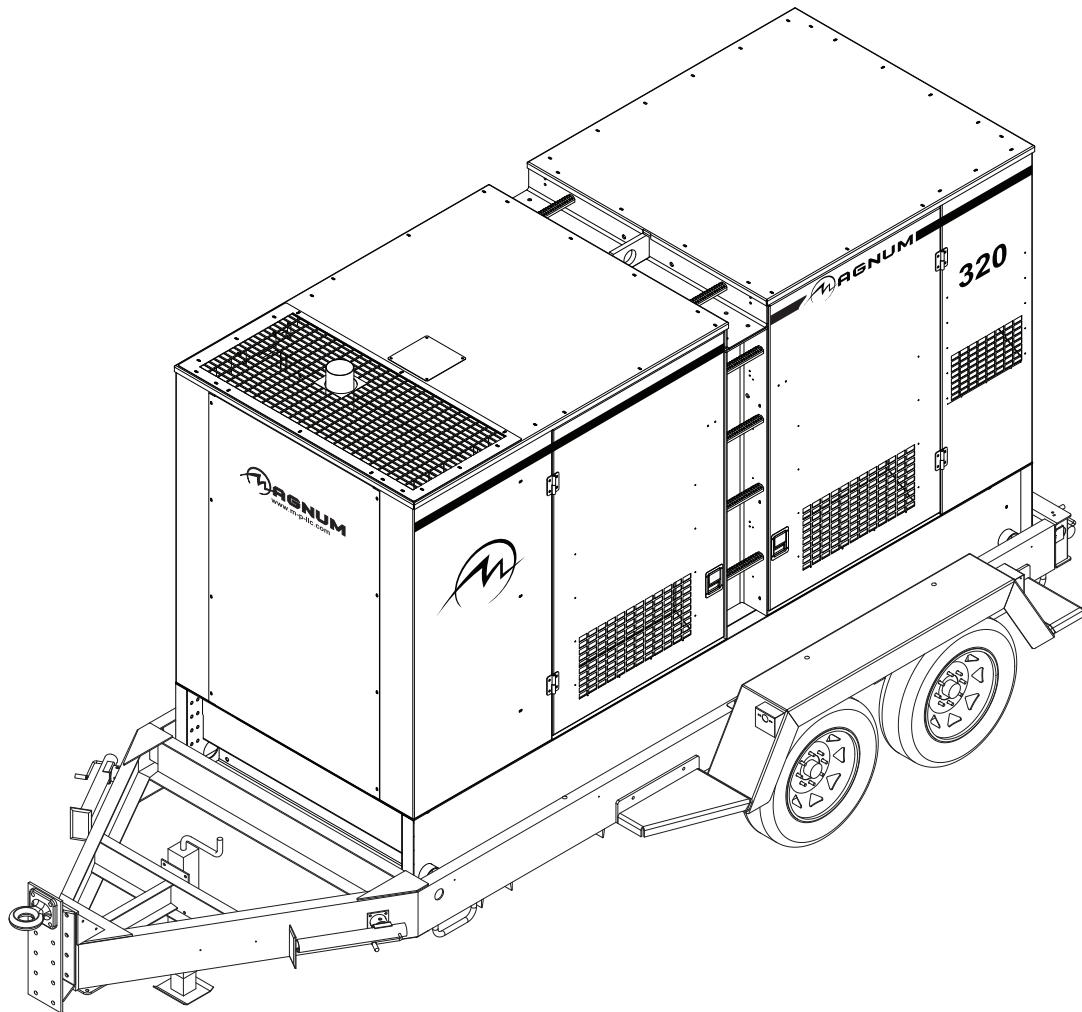


MAGNUM™
POWER PRODUCTS LLC

DIESEL GENERATOR
MMG320 • MMG405 • MMG465D



OPERATING MANUAL

Parts manuals available online! www.m-p-llc.com

INTRODUCTION

This manual provides information and procedures to safely operate and maintain the engine and generator. For your own safety and protection from physical injury, carefully read, understand, and observe the safety instructions described in this manual. *The information contained in this manual was based on machines in production at the time of publication. Magnum Power Products LLC reserves the right to change any portion of this information without notice.*

DO NOT MODIFY or use this equipment for any application other than which it was designed for.

Magnum Power Products LLC recommends that a trained and licensed professional perform all electrical wiring and testing functions. Any wiring should be in compliance with the United States National Electric Code (NEC), state and local codes and Occupational Safety and Health Association (OSHA) guidelines.

Keep a copy of this manual with the unit at all times. Additional copies are available from Magnum Power Products LLC, or can be found at www.m-p-ilc.com. An engine operator's manual is supplied with the unit at the time of shipment from the factory. The manual provides detailed operation and maintenance procedures for the engine. Additional copies of the engine operator's manual are available from the engine manufacturer.

MAGNUM POWER PRODUCTS LLC

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www.m-p-ilc.com

For technical or parts QUESTIONS, please contact the Magnum Power Products LLC Customer Support or Technical Support team at 1-800-926-9768. Please have your serial number available.

To ORDER SERVICE PARTS, please contact the dealer from which you purchased the unit, or call Magnum Power Products LLC to locate a dealer in your area.

Engine Make: _____

Engine Serial Number: _____

Engine Model Number: _____

Generator Make: _____

Generator Model Number: _____

Generator Serial Number: _____

Unit Model Number: _____

Unit Serial Number: _____

⚠ WARNING

CALIFORNIA PROPOSITION 65 WARNING: Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.

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SAFETY NOTES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, WARNINGS, CAUTIONS, NOTICES and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury or death. The following formatting options will apply when calling the readers attention to the DANGERS, WARNINGS, CAUTIONS, NOTICES and NOTES.

▲ DANGER

INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

▲ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a hazardous situation which, if not avoided, could result in property or equipment damage.

Note: Notes contain additional information important to a procedure and will be found within the regular text body of this manual.

OPERATING SAFETY



Before using the generator be sure you read and understand all of the instructions! This equipment was designed for specific applications; **DO NOT** modify or use this equipment for any application other than which it was designed for. Equipment operated improperly or by untrained personnel can be dangerous! Read the operating instructions and familiarize yourself with the location and proper use of all instruments and controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate or set up the generator. The following points should be practiced at all times:

- The area immediately surrounding the generator should be dry, clean, and free of debris.
- **NEVER** start a unit in need of repair.
- Make certain the generator is securely fastened to a good earthen ground before use. Installation should be in compliance with National Electric Code (NEC), as well as any state and local codes or regulations.
- **NEVER** operate the unit on a combustible surface.
- **NEVER** operate the generator if any of the following conditions exist during operation:
 1. Noticeable change in engine speed.
 2. Loss of electrical output.
 3. Equipment connected to the generator overheats.
 4. Sparking occurs.
 5. Engine misfires or there is excessive engine/generator vibration.
 6. Protective covers are loose or missing.
 7. If the ambient air temperature is above 120°F (49°C).
- Make sure slings, chains, hooks, ramps, jacks, and other types of lifting devices are attached securely and have enough weight-bearing capacity to lift or hold the equipment safely. Always remain aware of the position of other people around you when lifting the equipment.
- **NEVER** operate a unit while tired, distracted, or under the influence of drugs or alcohol.

ENGINE SAFETY



Internal combustion engines present special hazards during operation and fueling! Failure to follow the safety guidelines described below could result in severe injury or death. Read and follow all safety warnings described in the engine operator's manual. A copy of this manual was supplied with unit when it was shipped from the factory.

- **DO NOT** run engine indoors or in an area with poor ventilation. Diesel engine exhaust contains carbon monoxide, a deadly, odorless and colorless gas which, if inhaled, can cause nausea, fainting, or death. Only use this unit outside and away from windows, doors, and ventilation equipment.
- **DO NOT** fill fuel tank near an open flame, while smoking, or while engine is running. **DO NOT** fill tank in an enclosed area with poor ventilation.
- **DO NOT** operate with the fuel tank cap loose or missing.
- **DO NOT** touch or lean against hot exhaust pipes or engine cylinders.
- **DO NOT** clean air filter with gasoline or other types of low flash point solvents.
- **DO NOT** remove engine coolant cap while engine is hot.
- **DO NOT** operate the unit without a functional exhaust system. Prolonged exposure to sound levels in excess of 85 dB(A) can cause permanent hearing loss. Wear hearing protection when working around a running engine.
- Keep hands, feet and loose clothing away from moving parts on the generator and engine.
- Keep area around exhaust pipes and air ducts free of debris to reduce the chance of an accidental fire.
- Batteries contain sulfuric acid which can cause severe injury or death. Sulfuric acid can cause eye damage, burn flesh or eat holes in clothing. Protective eye wear and clothing are necessary when working on or around the battery. Always disconnect the NEGATIVE (-) battery cable from the corresponding terminal before performing any service on the engine or other components.

ELECTRICAL SAFETY



The unit is powered by a generator driven by a diesel engine. While the engine is running, potentially lethal voltages are present at the 120V Ground Fault Circuit Interrupt (GFCI) outlets and the 240V twist-lock outlets located on the control panel, and at the connection lugs and optional cam lock receptacles. Failure to follow the safety guidelines described below could result in severe injury or death.

- Only a qualified and licensed electrician should make connections to the generator.
- **NEVER** wash the unit with high pressure hoses or power washers.
- **NEVER** start the unit under load. The circuit breakers must be in the "OFF" position when starting the unit in MANUAL mode. The circuit breakers can be in the "ON" position only when started in the AUTO mode. A transfer switch must be used in the AUTO mode to deflect the load upon start up.
- **ALWAYS** disconnect the NEGATIVE (-) battery cable from the corresponding terminal before performing any service on the engine, generator, or any other components. Remove the NEGATIVE (-) battery cable from the corresponding terminal if the unit is to be stored or transported.
- **ALWAYS** use extreme caution when servicing this unit in damp conditions. Do not service the unit if your skin or clothing is wet. Do not allow water to collect around the base of the unit.
- **ALWAYS** connect the unit to a good earthen ground before use. Follow any local, state or National Electric Code (NEC) guidelines.

TOWING SAFETY



Towing a trailer requires care! Both the trailer and vehicle must be in good condition and securely fastened to each other to reduce the possibility of an accident. Also, some states require that large trailers be registered and licensed. Contact your local Department of Transportation office to check on license requirements for your particular unit.

- Check that the hitch and coupling on the towing vehicle are rated equal to, or greater than, the trailer's "gross vehicle weight rating" (GVWR).
- Check tires on trailer for tread wear, inflation, and condition.
- **NEVER** tow trailer using defective parts! Inspect the hitch and coupling for wear or damage.
- Make sure the trailer hitch and the coupling are compatible. Make sure the coupling is securely fastened to the vehicle.
- Connect safety chains in a crossing pattern under the tongue and **ATTACH THE BREAKAWAY CABLE TO THE REAR BUMPER OF THE TOWING VEHICLE**. Do not attach the cable to the trailer hitch.
- Make sure directional and brake lights on the trailer are connected and working properly.
- Check that lug nuts holding wheels are tight and that none are missing.
- Maximum recommended speed for highway towing is 45 mph (72 km/h). Recommended off-road towing speed is not to exceed 10 mph (16 km/h) or less, depending on terrain.

Before towing the trailer, check that the weight of the trailer is equal across all tires. A large angle between the trailer and tow vehicle will cause more weight to be carried by one axle, which could cause premature wear on the tires and axles and cause potentially unsafe operating conditions.

The trailer is equipped with electric surge brakes. Check the operation of the brakes by braking the vehicle at a slow speed before entering traffic. Both the trailer and the vehicle should brake smoothly. If the trailer seems to be pushing, check the level in the surge brake fluid reservoir.

When towing, maintain extra space between vehicles and avoid soft shoulders, curbs and sudden lane changes. If you have not pulled a trailer before, practice turning, stopping and backing up in an area away from heavy traffic.

A film of grease on the coupler will extend coupler life and eliminate squeaking. Wipe the coupler clean and apply fresh grease each time the trailer is towed.

REPORTING TRAILER SAFETY DEFECTS

If you believe your trailer has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Magnum Power Products LLC.

If NHTSA receives similar complaints, it may open an investigation; and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in an individual problem between you, your dealer, or Magnum Power Products LLC.

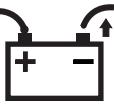
To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-888-327-4236 (TTY:1-800-424-9153), go to <http://www.safercar.gov>; or write to:

Administrator
NHTSA
1200 New Jersey Avenue S.E.
Washington, DC 20590

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

SAFETY SYMBOL SUMMARY

This equipment has been supplied with numerous safety and operating decals. These decals provide important operating instructions and warn of dangers and hazards. Replace any missing or hard-to-read decals and use care when washing or cleaning the unit. Decal placement and part numbers can be found in the online parts manual at www.m-p-llc.com. Below is a summary of the intended meanings for the symbols used on the decals.

	Safety alert symbol; used to alert you to potential personal injury hazards.		Asphyxiation hazard; operate in well ventilated area.
	Hot surface(s) nearby.		Dangerous voltage may be present.
	Belt/entanglement hazard; keep body parts clear of this area.		Anchor/tie down point.
	Fan hazard; keep body parts clear of this area.		Isolate generator to prevent electrocution hazard.
	Never change switch position while engine is running.		Use clean diesel fuel only.
	Stop engine before making connections.		Remove negative battery cable before performing any service on unit.
	Stop engine before fueling.		Read and understand the supplied operator's manual before operating unit.
	Hearing protection required while operating unit with doors open.		Unit electrical ground.
	Lift here only.		Fire/explosion hazard; keep open flames away from unit.
	Engine running.		Burn/scald hazard; pressurized steam.

SPECIFICATIONS - MMG320

Read this manual carefully before attempting to use this generator. The potential for property damage, personal injury or death exists if this equipment is misused or installed incorrectly. Read all of the manuals included with this unit. Each manual details specific information regarding items such as set up, use and service requirements.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MAGNUM MODEL	MMG320	MMG320 Super Start
Engine		
Make/Brand	John Deere	John Deere
Model	RG6090HF485	RG6090HF485
Horsepower - prime hp (kW)	384 (287)	384 (287)
Horsepower - standby hp (kW)	422 (315)	422 (315)
Operating Speed rpm	1800	1800
Displacement in ³ (L)	548 (9.0)	548 (9.0)
Cylinders - qty	6	6
Fuel Consumption - 100% prime gph (Lph)	17.9 (67.8)	17.9 (67.8)
Battery Type	Group 31	Group 31
Battery Voltage (Quantity per Unit)	12V (2)	12V (2)
Battery Rating	1000 CCA	1000 CCA
Generator		
Make/Brand	Marathon Electric	Marathon Electric
Model	432PSL6210	433PSL6220
Type, Insulation	Brushless, H	Brushless, H
Generator Set (Engine/Generator)		
3Ø - Standby kW (kVA)	278 (348)	282 (353)
Amps - 3Ø Standby 480V (208V) A	419 (966)	425 (980)
3Ø - Prime kW (kVA)	256 (320)	256 (320)
Amps - 3Ø Prime 480V (208V) A	385 (888)	385 (888)
1Ø - Standby kW (kVA)	N/A	N/A
Amps - 1Ø Standby - 240V A	N/A	N/A
1Ø - Prime kW (kVA)	N/A	N/A
Amps - 1Ø Prime - 240V A	N/A	N/A
Frequency Hz	60	60
Power Factor	0.8 (3Ø)	0.8 (3Ø)
Weights		
Dry Weight, Skid Mounted lbs (kg)	8039 (3646)	8599 (3900)
Operating Weight, Skid Mounted lbs (kg)	11499 (5215)	12059 (5469)
Dry Weight, Trailer Mounted lbs (kg)	10912 (4949)	11472 (5203)
Operating Weight, Trailer Mounted lbs (kg)	14372 (6519)	14932 (6773)
Capacities		
Fuel Tank Volume gal (L)	459 (1738)	459 (1738)
Usable Fuel Volume gal (L)	423 (1601)	423 (1601)
Coolant (incl. engine) qt (L)	75.0 (70.9)	75.0 (70.9)
Maximum Run Time hrs	24	24
AC Distribution		
Circuit Breaker Size	1200	1200
Voltage Selection	Link/Reconnect Board	Link/Reconnect Board
Voltage Regulation	+/- 1%	+/- 1%
Voltages Available 1Ø	N/A	N/A
Voltages Available 3Ø	208, 480	208, 480
Trailer		
Number of Axles	2	2
Capacity - Axle Rating lbs (kg)	8000 (3629)	8000 (3629)
Tire Size in	17.5	17.5
Brakes	Electric	Electric
Hitch - Standard	3" Ring	3" Ring
Maximum Tire Pressure psi	125	125

SPECIFICATIONS - MMG405

Read this manual carefully before attempting to use this generator. The potential for property damage, personal injury or death exists if this equipment is misused or installed incorrectly. Read all of the manuals included with this unit. Each manual details specific information regarding items such as set up, use and service requirements.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MAGNUM MODEL	MMG405	MMG405 Super Start
Engine		
Make/Brand	John Deere	John Deere
Model	RG6135HF485	RG6135HF485
Horsepower - prime hp (kW)	489 (365)	489 (365)
Horsepower - standby hp (kW)	538 (401)	538 (401)
Operating Speed rpm	1800	1800
Displacement in ³ (L)	824 (13.5)	824 (13.5)
Cylinders - qty	6	6
Fuel Consumption - 100% prime gph (Lph)	21.1 (79.9)	21.1 (79.9)
Battery Type	Group 31	Group 31
Battery Voltage (Quantity per Unit)	24V (2-12V)	24V (2-12V)
Battery Rating	1000 CCA	1000 CCA
Generator		
Make/Brand	Marathon Electric	Marathon Electric
Model	433PSL6216	433PSL6220
Type, Insulation	Brushless, H	Brushless, H
Generator Set (Engine/Generator)		
3Ø - Standby kW (kVA)	358 (447)	358 (448)
Amps - 3Ø Standby 480V (208V) A	538 (1241)	539 (1244)
3Ø - Prime kW (kVA)	326 (408)	327 (409)
Amps - 3Ø Prime 480V (208V) A	491 (1132)	492 (1135)
1Ø - Standby kW (kVA)	N/A	N/A
Amps - 1Ø Standby - 240V A	N/A	N/A
1Ø - Prime kW (kVA)	N/A	N/A
Amps - 1Ø Prime - 240V A	N/A	N/A
Frequency Hz	60	60
Power Factor	0.8 (3Ø)	0.8 (3Ø)
Weights		
Dry Weight, Skid Mounted lbs (kg)	12740 (5779)	12750 (5783)
Operating Weight, Skid Mounted lbs (kg)	17114 (7763)	17124 (7767)
Dry Weight, Trailer Mounted lbs (kg)	15990 (7253)	16000 (7257)
Operating Weight, Trailer Mounted lbs (kg)	20364 (9237)	20374 (9241)
Capacities		
Fuel Tank Volume gal (L)	616 (2332)	616 (2332)
Usable Fuel Volume gal (L)	573 (2169)	573 (2169)
Coolant (incl. engine) qt (L)	95.5 (90.4)	95.5 (90.4)
Maximum Run Time hrs	29	29
AC Distribution		
Circuit Breaker Size	1600	1600
Voltage Selection	Link/Reconnect Board	Link/Reconnect Board
Voltage Regulation	+/- 1%	+/- 1%
Voltages Available 1Ø	N/A	N/A
Voltages Available 3Ø	208, 480	208, 480
Trailer		
Number of Axles	3	3
Capacity - Axle Rating lbs (kg)	8000 (3629)	8000 (3629)
Tire Size in	17.5	17.5
Brakes	Electric	Electric
Hitch - Standard	3" Ring	3" Ring
Maximum Tire Pressure psi	125	125

SPECIFICATIONS - MMG465D

Read this manual carefully before attempting to use this generator. The potential for property damage, personal injury or death exists if this equipment is misused or installed incorrectly. Read all of the manuals included with this unit. Each manual details specific information regarding items such as set up, use and service requirements.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MAGNUM MODEL

MMG465D

Engine

Make/Brand	John Deere
Model	RG6135HF485
Horsepower - prime hp (kW)	561 (419)
Horsepower - standby hp (kW)	617 (460)
Operating Speed rpm	1800
Displacement in³ (L)	824 (13.5)
Cylinders - qty	6
Fuel Consumption - 100% prime gph (Lph)	26.3 (99.6)
Battery Type	Group 31
Battery Voltage (Quantity per Unit)	24V (2-12V)
Battery Rating	1000 CCA

Generator

Make/Brand	Marathon Electric
Model	433PSL6220
Type, Insulation	Brushless, H

Generator Set (Engine/Generator)

3Ø - Standby kW (kVA)	408 (510)
Amps - 3Ø Standby 480V (208V) A	613 (1416)
3Ø - Prime kW (kVA)	373 (466)
Amps - 3Ø Prime 480V (208V) A	561 (1293)
1Ø - Standby kW (kVA)	N/A
Amps - 1Ø Standby - 240V A	N/A
1Ø - Prime kW (kVA)	N/A
Amps - 1Ø Prime - 240V A	N/A
Frequency Hz	60
Power Factor	0.8 (3Ø)

Weights

Dry Weight, Skid Mounted lbs (kg)	12690 (5756)
Operating Weight, Skid Mounted lbs (kg)	17125 (7768)
Dry Weight, Trailer Mounted lbs (kg)	15940 (7230)
Operating Weight, Trailer Mounted lbs (kg)	20375 (9241)

Capacities

Fuel Tank Volume gal (L)	616 (2332)
Usable Fuel Volume gal (L)	573 (2169)
Coolant (incl. engine) qt (L)	95.5 (90.4)
Maximum Run Time hrs	29

AC Distribution

Circuit Breaker Size	1600
Voltage Selection	Link/Reconnect Board
Voltage Regulation	+/-1%
Voltages Available 1Ø	N/A
Voltages Available 3Ø	208, 480

Trailer

Number of Axles	3
Capacity - Axle Rating lbs (kg)	8000 (3629)
Tire Size in	17.5
Brakes	Electric
Hitch - Standard	3" Ring
Maximum Tire Pressure psi	125

UNIT DIMENSIONS

Read this manual carefully before attempting to use this generator. The potential for property damage, personal injury or death exists if this equipment is misused or installed incorrectly. Read all of the manuals included with this unit. Each manual details specific information regarding items such as set up, use and service requirements.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MAGNUM MODEL

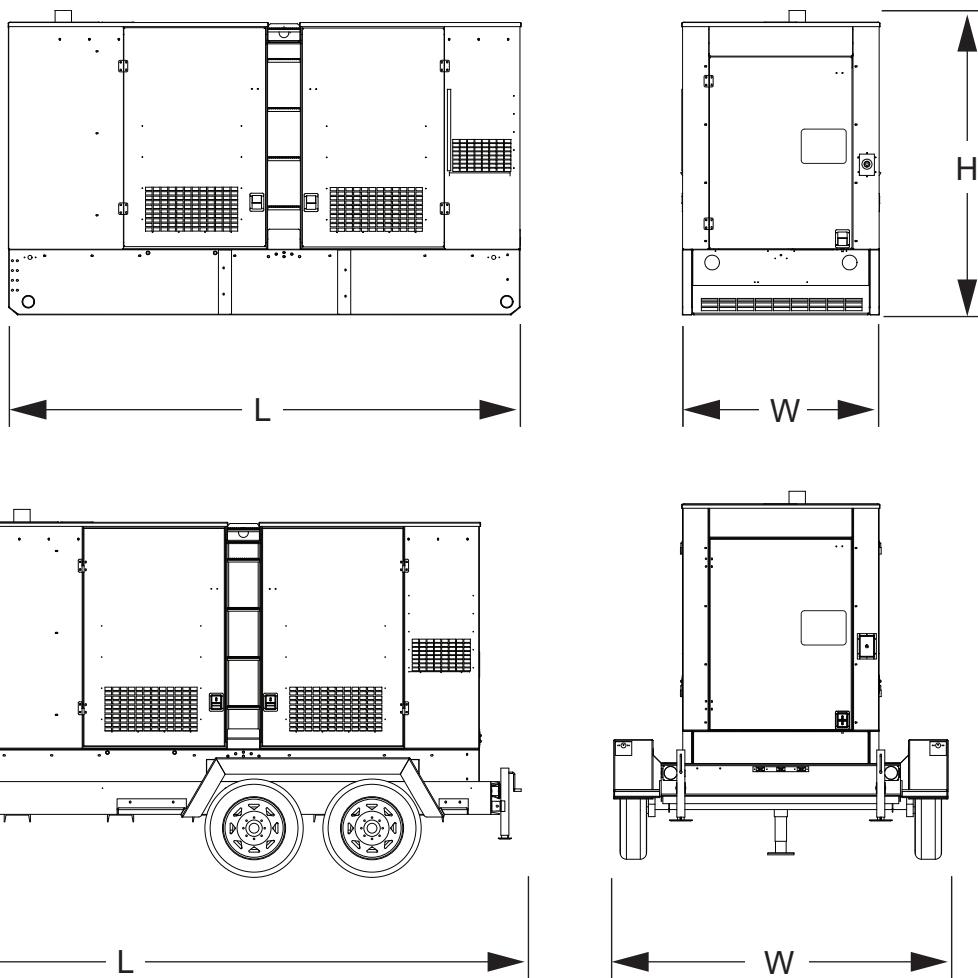
MMG320 (*shown below*)

MMG405

MMG465D

Dimensions (L x W x H)

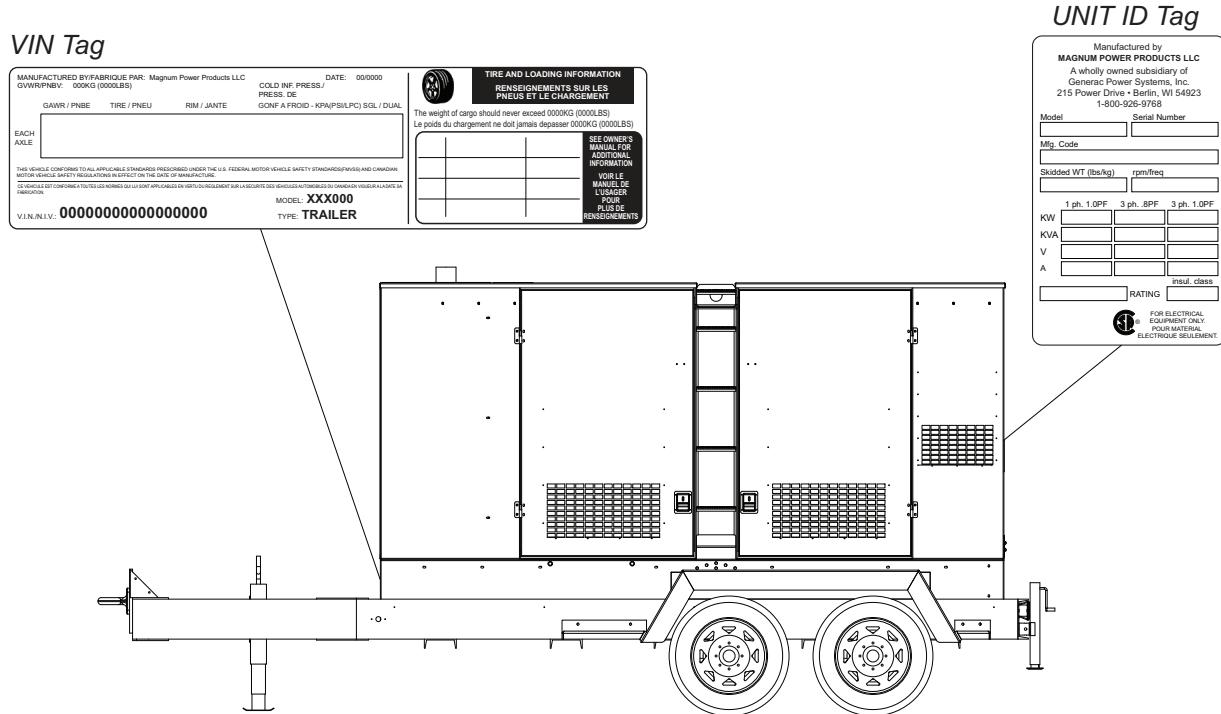
Skid Mounted in (m)	156 x 60 x 90 (3.96 x 1.52 x 2.29)	175 x 60 x 96 (4.45 x 1.52 x 2.44)	200 x 60 x 96 (5.08 x 1.52 x 2.44)
Trailer Mounted in (m)	230 x 102 x 110 (5.84 x 2.59 x 2.79)	250 x 102 x 116 (6.35 x 2.59 x 2.95)	250 x 102 x 116 (6.35 x 2.59 x 2.95)



UNIT SERIAL NUMBER LOCATIONS

Refer to the locations illustrated below to find the unit ID tag and VIN tag on your unit. Important information, such as the unit serial number, model number and Vehicle Identification Number (VIN) for your trailer are found on these tags. Record the information from these tags, so it is available if the tags are lost or damaged. When ordering parts or requesting technical service information, you may be asked to provide this information.

The MMG320 is pictured. The MMG405 and MMG465D serial number locations are similar; the UNIT ID Tag can be found on the control panel on the right rear side of the unit.



COMPONENT LOCATIONS - MMG320

