

Magnum Mobile Generator – MMG 425 SS, Specifications

SUPER START GENERATOR

- Reduces voltage dip on starting events
 - Decreases stress on the motor being started
 - Increases the life of motor starting contactors and prevents chattering
- Reduces internal generator temperature
- Allows smaller engines to effectively start larger motors
 - Lower fuel consumption
 - Lower cost unit acquisition
 - Reduced chance of wet-stacking
- SS gen-end increases single motor starting by 28% over standard model
- Increases motor starting kVA from 850 sKVA to 1086 sKVA (w/25% voltage dip)
- Will start a 188 HP motor (Nema starting code G w/25% voltage dip at 460 VAC)
- Marathon Electric generator
 - 374 kW/468 kVA standby 3 phase
 - 342 kW/428 kVA prime 3 phase
 - Brushless
 - Two position, voltage link board
 - Three phase 120/208 VAC
 - Three phase 277/480 VAC
- CSA Listed, Class 42501 for Electric Generating Plants

ENGINE

- John Deere PE6125HF070 turbocharged diesel engine
 - 12.5 Liter, 6 cylinder
 - 512 hp at 1800 rpm (prime)
 - Tier II approved
- 22 hr fuel tank
- Fuel consumption at prime:
 - 25% power is 7.30 g/h
 - 50% power is 12.60 g/h
 - 75% power is 18.30 g/h
 - 100% power is 25.20 g/h
- Radiator sized to allow continuous operation in 120 F temperatures
- Radiator and oil drains on flexible hose extensions
- Rubber vibration dampers to frame
- Dry paper type disposable air filter



- Air cleaner restriction indicator mounted on control panel
- (2) 1000 CCA wet cell battery
- In-line engine block heater (KIM hot start)
- Battery disconnect
- 120% containment pan
- Battery charger – 2 amp trickle

UNIT CONTROLS

- Magnum Products EZ-1 Genset controller
 - Backlit, 128 x 64 pixel resolution monitoring display
 - Six LED indicators w/ lamp test on startup
 - Alarm / Fault (Red)
 - Ready / Manual (Green)
 - Running (Green)
 - Warning (Yellow)
 - Ready / Auto (Green)
 - Supplying Load (Green)
 - Push buttons for easy operation w/ sealed membrane to IP65
 - Operation of engine / generator set
 - Manual
 - Auto
 - Alarm Cancel
 - Fault Reset
 - Engine Start
 - Engine Stop
 - Available metering displays include
 - Engine speed
 - Oil Pressure
 - Coolant Temperature
 - Battery voltage
 - Fuel level
 - Running hour meter
 - All generator measurements (KVA_r, kW, V₁–V₃, Hz, Amperage L1–L3, kWh, KVAh)
 - Engine/generator
 - Fuel level warning and shutdown
 - Overspeed protection warning and shutdown
 - Oil pressure warning and shutdown
 - Coolant temperature warning and shutdown
 - Low coolant shutdown kit
 - Battery voltage over and under protection
 - Generator over / under voltage warning and shutdown



- Generator over / under frequency warning and shutdown
- Over current shutdown
- -40F to 185F operating temperature range

ELECTRICAL CONTROLS

- Remote starting capability
 - Start / Stop contacts located on terminal strip
- Lockable control box door
 - Window to observe LCD
- Lug box safety switch
 - Main breaker trips when door is opened
 - Disables voltage regulator
- Cable entry box guards against any foreign objects having access to the lugs
- Output ground connection lug on inside of lug box
- Document holder to store supplied operation and parts manual
- 1600 Amp main breaker
- Convenience receptacles with individual breakers
 - (2) 120 VAC 20 Amp GFCI duplex outlets (Nema 5-20R type) (139VAC in 480 operations)
 - (3) 125 / 250 VAC 50 Amp 3 pole 4 wire twistlock (Non Nema 6369)
- Buck transformer for 120 volts at 480 VAC
- Panel mounted rheostat
 - Fine adjust voltage +/- 10%

VOLTAGE REGULATION

- Voltage regulation is +/- 1% with Marathon SE350 Voltage regulator
- Generator speed is controlled by an electronic governor, and is switchable between droop and isochronous governing.

VOLTAGE SELECTION

- Two position, voltage link board
 - 277/480 VAC, three phase High wye
 - 120/208 VAC, three phase Low wye

ENCLOSURE

- Sound attenuated aluminum enclosure with white industrial powder coat finish
- Enclosure with baffles and insulation
 - 68 dBA @ 23 feet at prime power
- Fully lockable enclosure
- Emergency stop switch located on outside of enclosure
- Locking integral fuel cap
- Central lifting point on steel internal lifting structure



MMG 425 SS Specifications Continued:

- Skid mounted for easy mounting to trailer or base
- Rear stabilizer jacks (2) 5,000 lbs capacity

TRAILER

- Industrial powder coated flat black finish
- Tie down points on unit
- Tail, side, brake, and directional lights meet DOT standards
- Triple 8000 lb. axles w/electric brakes
- Adjustable 3" ring hitch
- 17.5" tires
- Safety chains
- 12,000 lbs capacity "topwind" tongue jack w/footplate
- Non-skid step in front and rear of fender

WARRANTY

- 1 year unlimited hours, 2 years 2000 hours on unit
- 1 year unlimited hours, 2 years 2000 hours from John Deere



Magnum Mobile Generator – MMG 425 SS, Optional Accessories

ENGINE OPTIONS

- Fuel transfer pump

UNIT CONTROL OPTIONS

- Analog gauges

ELECTRICAL CONTROL OPTIONS

- Auxiliary strobe/audible indication for soft and hard alarm conditions
- Control panel light
- Interior light

ENCLOSURE OPTIONS

- Fire extinguisher

TRAILER OPTIONS

- 6 pin or 7 spade electrical connectors
- Spare tire/wheel kit

