



# MQP240

## Diesel Generator

Prime Rating — 240 kW (300 kVA)

Standby Rating — 260 kW (330 kVA)

3-Phase, 60 Hertz, 0.8 PF



### STANDARD FEATURES

- **Heavy duty, turbocharged, direct injection diesel engine** provides maximum reliability.
- **Brushless alternator** reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
- **Open delta alternator** design provides virtually unlimited excitation for maximum motor starting capability.
- **Automatic voltage regulator (AVR)** provides precise regulation.
- **Electronic governor system with idle switch** maintains frequency to  $\pm 0.25\%$ .
- **Full load acceptance** of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- **Sound attenuated, weather resistant, steel housing** provides operation at 73 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- **Fuel/water separator** removes condensation from fuel for extended engine life.
- **E-Coat primer** with polyurethane enamel finish coat.
- **Low coolant level shutdown system** provides protection from critically low coolant levels. Includes control panel warning light.
- **Complete engine analog instrumentation** includes DC ammeter, oil pressure gauge, fuel gauge, water temp. gauge, tachometer/hour meter, preheat indicator, manual engine speed control, emergency shutdown monitors, and emergency stop button.
- **Complete generator analog instrumentation** includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.
- **Automatic safety shutdown system** monitors the water temperature, engine oil pressure, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- **Auto start/stop control** allows generator to start automatically in the event of a commercial power failure.
- **Complete power panel.** Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.
- **Two stage air filter**
- **Simultaneous single and three phase power**
- **Emergency stop switch**
- **Battery switch**
- **Documentation box**
- **EPA emissions certified** - Tier 3 emissions compliant
- **CSA listed**



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### SPECIFICATIONS

<b>Generator Specifications</b>	
Design	Revolving field, self-ventilated Drip-proof, single bearing
No. of Poles	4
Excitation	Brushless with AVR
Phase	3
Standby Output	260 KW (330 KVA)
Prime Output	240 KW (300 KVA)
Generator RPM	1800
Voltage - 3Ø	208, 220, 240, 416, 440, 480V Reconnectable
Voltage - 1Ø	120, 127, 139, 240, 254, 277V Adjustable
Armature Connection	Star with Neutral
Voltage Regulation (No load to full load)	±0.5%
Power Factor	0.8
Frequency	60 Hz
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.
Insulation	Class F
Sound Level dB(A) Full load at 23 feet	73

<b>Engine Specifications</b>	
Make / Model	Cummins / QSL9-G3
Emissions	EPA Tier 3 Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged. Charged Air Cooled.
Displacement	543 in <sup>3</sup> (8900 cc)
No. cylinders	6
Bore x Stroke	4.49 x 5.71 in. (114 x 145 mm)
Gross Engine Power Output	399 hp (297 kW)
BMEP	287 psi (1979 kPa)
Piston Speed	1707 ft/min (8.7 m/s)
Compression Ratio	17.8:1
Engine Speed	1800 rpm
Overspeed Limit	2040 rpm
Oil Capacity	7.0 gallons (26.5 liters)
Battery	150Ah x 2 (24 V Systems)

<b>Fuel System*</b>		
Recommended Fuel	ASTM-D975-No.1 & No.2-D**	
Maximum Fuel Flow (per hour)	22 gallons (83 liters)	
Maximum Inlet Restriction (Hg)	6.0 in (152 mm)	
<b>Fuel Consumption</b>	<b>gph</b>	<b>lph</b>
At full load	19.0	72.0
At 3/4 load	15.5	58.6
At 1/2 load	11.1	41.9
At 1/4 load	5.9	22.4
* - External fuel tank. No fuel tank installed on generator.		
** - Use ultra-low sulfur diesel fuel.		

<b>Cooling System</b>	
Fan Load	12 hp (9 kW)
Coolant Capacity (with radiator)	11.3 gallons (43 liters)
Coolant Flow Rate (per minute)	60.5 gallons (229 liters)
Heat Rejection to Coolant (per minute)	6310 Btu (6.6 MJ)
Maximum Coolant Friction Head	5.0 psi (35 kPa)
Maximum Coolant Static Head	60 feet (18 meters)
Ambient Temperature Rating	104°F (40°C)

<b>Air</b>	
Combustion Air	770 cfm (21.8 m <sup>3</sup> /min)
Maximum Air Cleaner Restriction	25 in. H <sub>2</sub> O (6.25 kPa)
Alternator Cooling Air	2797 cfm (79.0 m <sup>3</sup> /min)
Radiator Cooling Air	7946 cfm (225 m <sup>3</sup> /min)

<b>Exhaust System</b>	
Gas Flow (full load)	2040 cfm (57.9 m <sup>3</sup> /min)
Gas Temperature	1035°F (560°C)
Maximum Back Pressure	40.8 in. H <sub>2</sub> O (10.2 kPa)

<b>Amperage</b>	
Rated Voltage	Maximum Amps
1Ø 120 Volt	666.7 Amps (4 wire)
1Ø 240 Volt	333.3 Amps (4 wire)
3Ø 240 Volt	722 Amps
3Ø 480 Volt	361 Amps
Main Line Circuit Breaker Rating	800 Amps
Over Current Relay Trip Set Point	361 Amps

### WARRANTY\*

#### Cummins Engine

12 months from date of purchase with unlimited hours.

#### Generator

24 months from date of purchase or 2000 hours (whichever occurs first).

#### Trailer

12 months excluding normal wear items.

\*Refer to the express written, one-year limited warranty sheet for additional information.

### NOTICE

Generator is not intended for use in enclosed areas or where free flow of air is restricted.

Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device.

Specifications are subject to change without notice.



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## Diesel Generator

**MQ POWER DECIBEL LEVELS**

Our soundproof housing allows substantially lower operating noise levels than competitive designs. WhisperWatts are at home on construction sites, in residential neighborhoods, and at hospitals — just about anywhere.

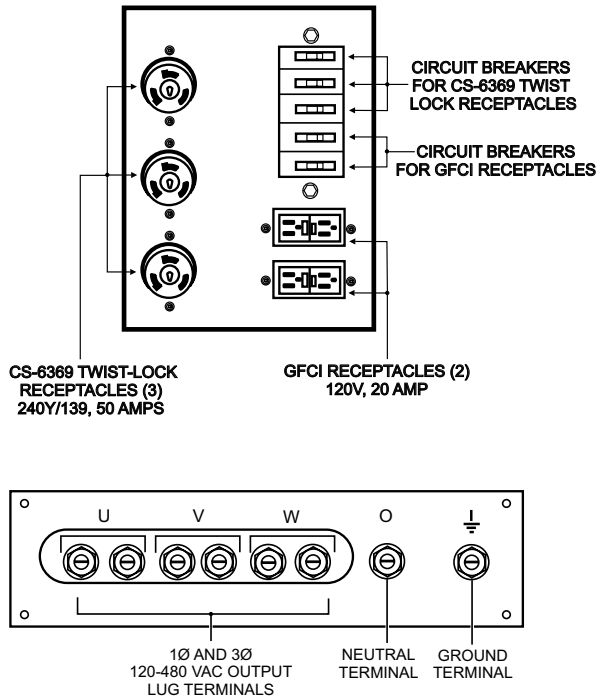
- 90 — Subway / truck traffic
- 80 — Average city traffic  
MQP240 at 23 feet
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

73.0

DECIBELS

### GENERATOR OUTPUT PANEL



### OPTIONAL GENERATOR FEATURES

- **Battery charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Jacket water heater** — for easy starting in cold weather climates.
- **Special batteries** — long life batteries provide extra engine cranking power.
- **Spring isolaters** — provides extra vibration protection for standby applications.
- **Trailer mounted package** — highway legal trailer with electric or surge brakes with triple axle configuration. Extra capacity fuel tanks are also available.

### OPTIONAL CONTROL FEATURES

- **Audible Alarm** — alerts operator of abnormal conditions.

### OPTIONAL FUEL CELL FEATURES

- **Trailer fuel tank** — fuel cell located in the trailer.
- **Subbase fuel cell (double wall)** — contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
- 12 hours of minimum run time.
- 24 hours of minimum run time.

### OPTIONAL OUTPUT CONNECTIONS

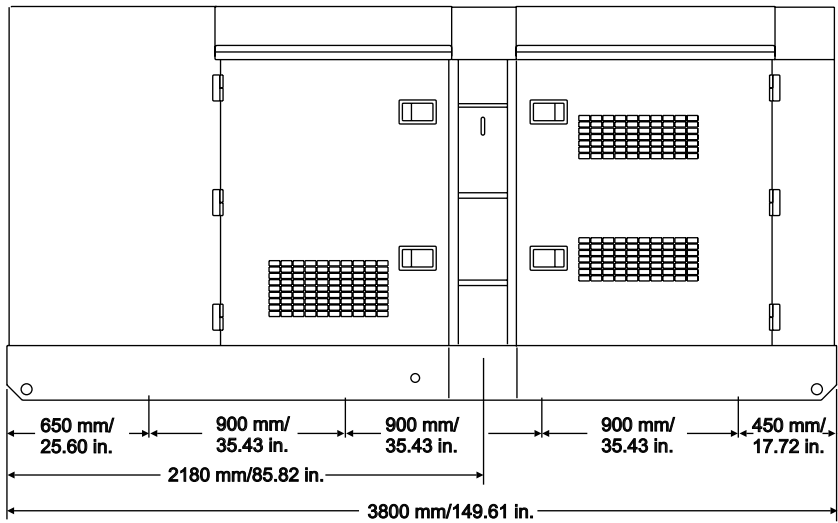
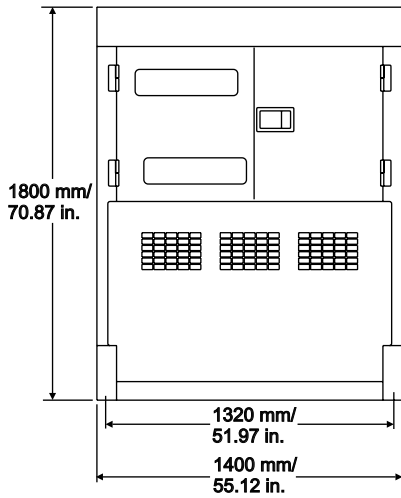
- **Cam-Loks** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.



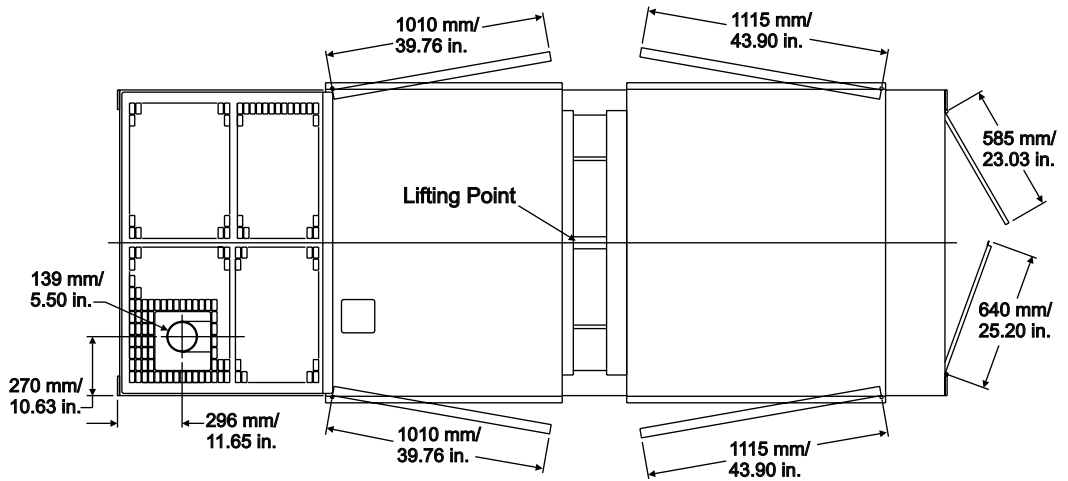
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## Diesel Generator

### DIMENSIONS



Weight	
Dry Weight	8,645 lbs. (3,920 kg)
Wet Weight	8,865 lbs. (4,020 kg)
Max. Lifting Point Capacity	16,500 lbs. (7,484 kg)



Your MultiQuip dealer is:

