



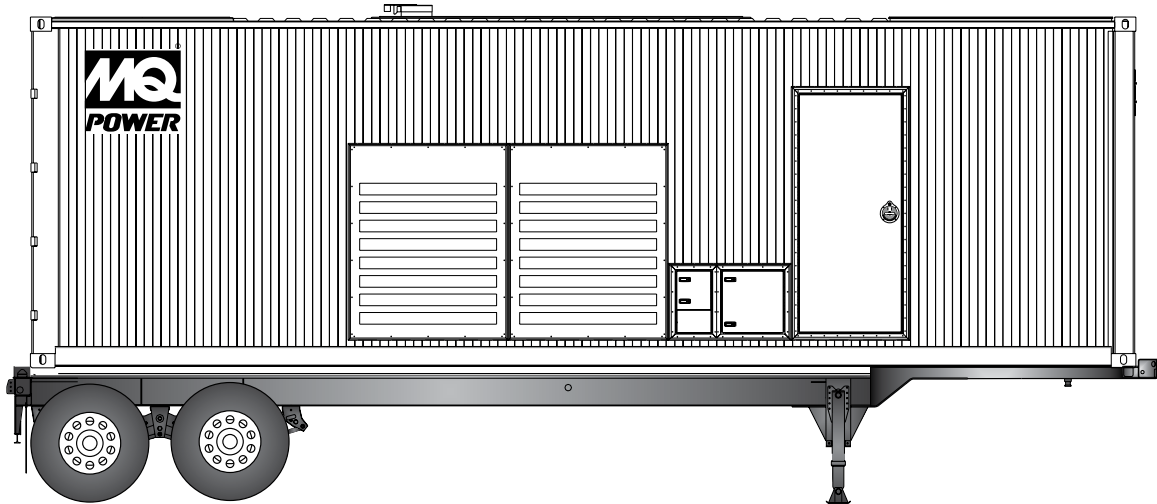
CG1000C2

MQ POWER Containerized Diesel Generator

Prime Rating — 900 kW (1125 kVA)

Standby Rating — 1000 kW (1250 kVA)

EPA Certified Tier 2, 60 Hertz



STANDARD FEATURES

Cummins Heavy Duty Diesel Engine

- 4-cycle design, turbocharged, aftercooled, direct injection
- Battery charger
- Engine coolant heater
- Fire extinguisher (ABC type)
- Meets EPA Tier 2 emissions standards

Fuel System

- 1000 gallon, double wall fuel tank
- Fuel priming system
- Manual fuel valves (for internal or external fuel supply)
- External fuel fill
- Fuel containment

Alternator

- Brushless, 4-pole, synchronous, WYE connection
- Class H insulation system conforms to NEMA MG1-1.65 and BS2757
- Drip-proof, self-venting, amortisseur windings

Electronic Voltage Regulator

- Electronic automatic voltage regulator provides precise regulation
- Separate three-phase PMG for fast recovery from block loads and motor starting

Full Load Acceptance

- Accepts 100% of standby nameplate rating in one step, in compliance with NFPA, para 5-13.2.6

Generator Control Panel

- Vibration-isolated controller
- Manual or remote engine start/stop
- Modbus communication support
- Safety shutdowns
- Externally mounted emergency stop switch
- Generator mainline circuit breaker, 100% rated, electronically operated, UL listed

Specially Designed Container

- 30 ft. ISO container, sound-attenuated, acoustical fiberglass for extremely quiet operation
- 4" full containment
- Integral vibration isolators
- Exterior polyurethane coating system provides long life in extreme operating conditions
- Interior DC lights and timer switches
- Critical grade silencer with insulation

Warranty

- Engine-generator sets are covered by an express written, one-year limited warranty



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SPECIFICATIONS

Alternator Specifications

Make	Stamford HCI634J1
Type	4-Pole, Rotating Field
Number of Leads	12
Generator Type	Brushless w/ PMG
Voltage Regulator	Solid State
Insulation	NEMA MG1-1.66
Material	Class H
Temperature Rise	105° C / 125° C
Bearing: Number, Type	Single, Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Excitation	Separately-derived
Voltage Regulation (no load to full load)	0.25% Steady State
Generator Efficiency at Full Load	95%
Phase Sequence	ABC (L1, L2, L3)
L-L Harmonic Max Total	<5.0%
L-L Harmonic Max Single	<3.0%

Engine Specifications

Manufacturer/Model	Cummins / QST30-G5 NR2
Engine Type	4-cycle, Turbocharged, and Low Temperature After Cooled (Air-to -Air)
Cylinder Arrangement	V-12
Displacement	1860 in ³ (30.5 L)
Bore	5.51 in. (140 mm)
Stroke	6.5 in. (165 mm)
Compression Ratio	14.7 : 1
Piston Speed (60Hz)	1950 ft./min (9.91 m/sec)
Bearing Main: Number	7
Bearing Main: Type	Replaceable, Precision
Cylinder Head Material	Cast iron
Crankshaft Material	Forged steel
Brake Mean Effective Pressure (BMEP)	351 psi (2417 kPa)
Rated RPM (60 Hz)	1800 RPM
Max. Power At Rated RPM (without fan)	1490 hp (1112 kW)
Governor: Type	Electronic
Frequency Regulation: Steady State	Isochronous
Air Cleaner Type - All Models	Dry

Amperage

Voltage	Phase	Power Factor	Continuous Amperes	
			Standby	Prime
480 Volt	3	0.8	1504	1353

Engine Electrical System

Battery Charging Alternator Ground Type	Negative
Volts	24 VDC
Alternator Ampere Rating	35 A
Starter Motor Rated Voltage	24 VDC
Minimum Recommended Battery for 0°C/ Cold Cranking Performance	1425 Ah

Derating

Derating Factors (60 Hz)	Altitude	Ambient Temperature
The engine may be operated up to 2385 ft. (727 m) altitude without derating at 1800 rpm.	>2385 ft. = 3.5% per 1000 ft. (305 m)	+7% per 10°C (18°F)

Cooling System

Exhaust Manifold Type	Dry
Radiator Design	Parallel cores
Coolant Capacity - Engine	53.2 gal. (201 L)
Water Pump Design/Type	Belt Driven, Centrifugal
Coolant Flow	114 gal/min (432 L/min)
Total Heat Rejection from Cooling System	41660 BTU/min (43.9 MJ/min)
Thermostat Range	200 °F (93.3 °C)

Fuel System

Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Filter Micron Size	10	
Total Fuel Flow	150 gal./hr. (570 L/Hr.)	
Fuel Tank Capacity	1000 gal (3,785 L)	
Fuel Consumption - gal/hr (L/hr)	Standby	Prime
At 1/4 load	19.1 (72.3)	17.3 (65.5)
At 1/2 load	35.8 (135.5)	32.1 (121.5)
At 3/4 load	54.1 (204.8)	47.5 (179.8)
At full load	72.2 (273.3)	63.9 (241.9)

* - Use ultra-low sulfur diesel fuel.

Lubrication System

Type	Full Pressure System
Oil Filters	4 Spin-on, Full Flow
Oil Capacity with Filters	35 gal. (132 L)
Oil Pressure at Rated Speed (minimum)	45-56 psi (310-386 kPa)

Exhaust System

Exhaust Temperature at Rated kW	890° F (477° C)
Exhaust Flow at Rated kW	7540 cfm (211 m ³ /min)
Silencer Type	Critical
Maximum Allowable Backpressure (standby)	27 in/wc (6.8 kPa)
Exhaust Outlet Size at hook-up	10 in. (254 mm)



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The CG1000C2 Sound Attenuated Generator is configured for standard 60 Hz, 480V output. Special voltage outputs are available (special order).

ALTERNATOR FEATURES

- Generator protection for overload and short circuit.
- Generator is designed and built within NEMA, IEEE and ANSI standards for temperature rise.
- PMG for superior regulation and response.
- Three-phase sensing on regulator.

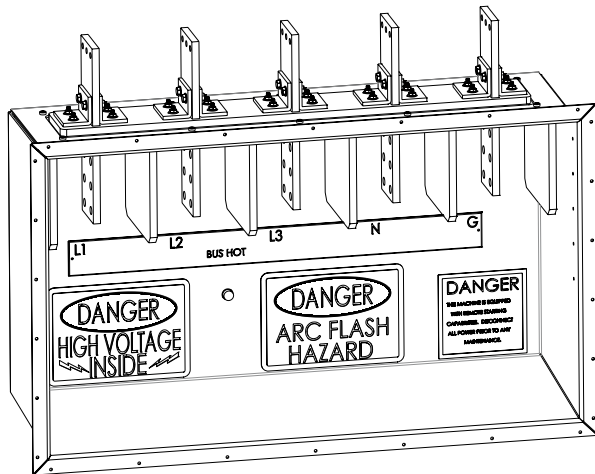
OPTIONAL FEATURES AND ACCESSORIES

Generator Set

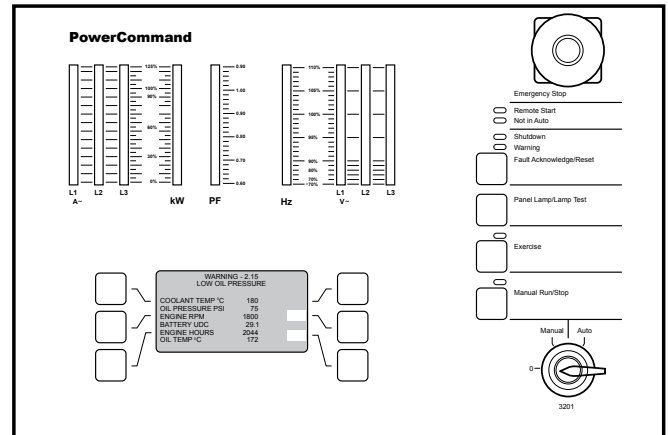
- Genset-to-Genset Paralleling Control System
- Remote Controller
- Custom Outlet Panels
- Oil Pan Heater
- Alternator Strip Heater

Container

- ISO Trailer Chassis (30 ft.)
- 9-Step Fueling Ladder with Hand Rail
- Personnel Ladder (Aluminum Construction)
- Custom Paint Colors (Arctic White is Standard)



Bus Panel



Power Command Digital Genset Control

DIGITAL CONTROLLER FEATURES

- Local and Remote Generator Control
- Automatic and Manual Starting and Stopping
- Engine and Generator Protection
- Digital Voltage Regulation
- ECU Communications via SAE J1939
- 4 Programmable Contact Inputs
- AC Output Metering
- Integrated RS485
- Auto Synchronizing
- Digital Alarm and Status Display

Monitoring

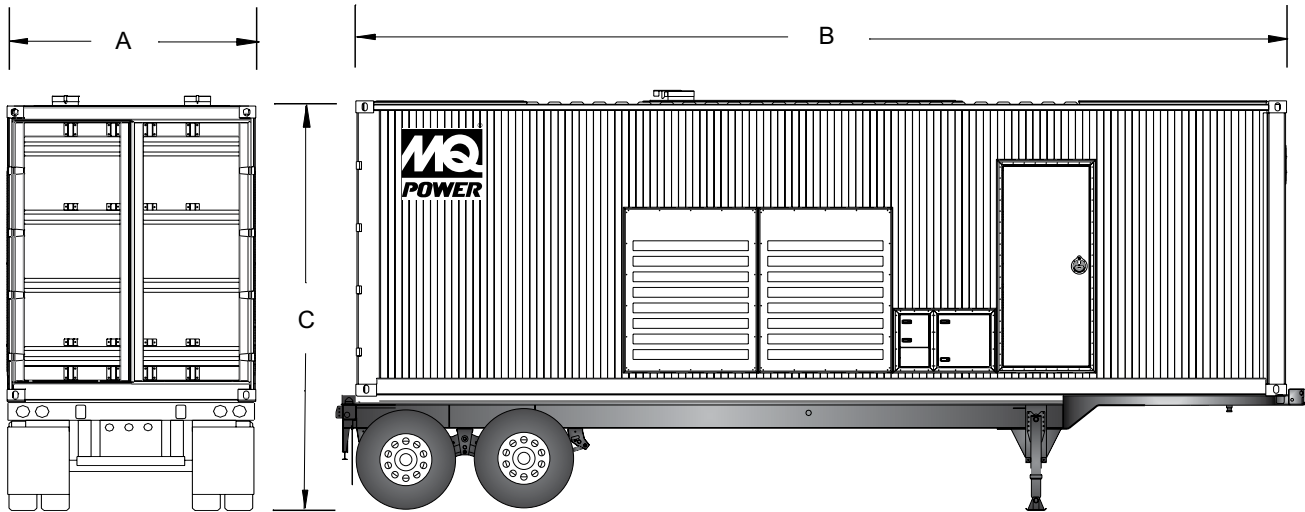
- Engine RPM
- Engine Run Time
- Generator Voltage
- Generator Current
- Generator Frequency
- Oil Pressure
- Battery Voltage
- Low Fuel Alarm
- Running Hour Meter
- Coolant Temperature
- Generator Under/Over Voltage Alarm/Shutdown
- Generator Under/Over Frequency Alarm/Shutdown
- Over Current Alarm/Shutdown



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DIMENSIONS



Weight and Dimensions		
A	B	C
96 in. (2,438 mm)	360 in. (9,144 mm)	163 in. (4,137 mm)
Weight (Wet)*		53,420 lbs (24,231 kg)
Weight (Wet with Trailer)*		59,420 lbs (26,952 kg)

* - Weight is approximate. Wet weight does not include fuel.

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