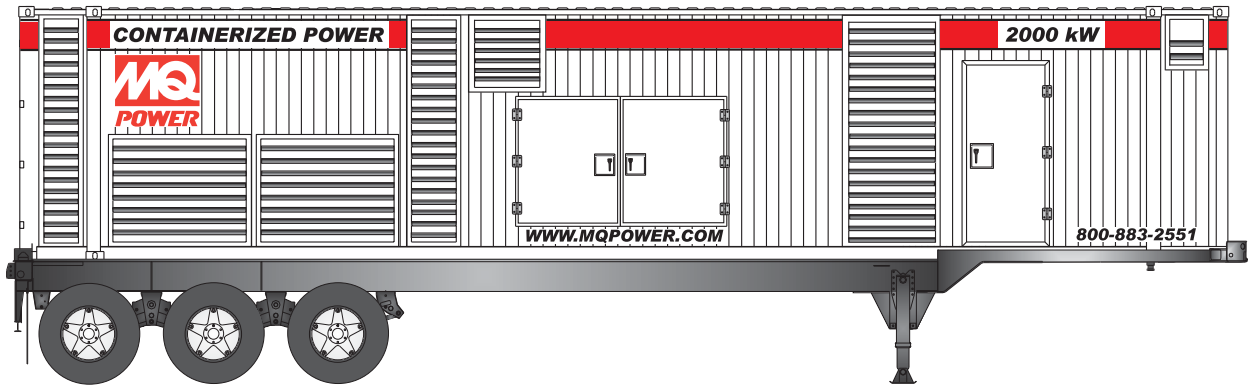




2000 kW Containerized Diesel Generator Set

Model	Emissions	Standby Rating	Prime Rating
EGC2000C	EPA Certified	60 Hertz	
		2000kW (2500kVA)	1825kW (2281kVA)



(Shown with 45 ft. container optional ISO trailer chassis)

Standard Features

Cummins Heavy Duty Diesel Engine

- 4-cycle design, turbocharged, aftercooled, direct injection
- A/C drive electric fans
- Engine coolant heater
- Meets EPA Tier 2 emissions standards

Fuel System

- 1600 gallon, single wall fuel tank
- Fuel priming system
- Electric fuel pump
- External fuel fill
- 30 micron RACOR® fuel/water separator with drip pan assembly

Alternator

- Brushless, 4-pole, synchronous, WYE connection
- Class H insulation system conforms to NEMA MG1-22, BS5000, CSA-C22-2, IEC-34-1 standards for temperature rise
- Separate excitation for fast recovery from block loads and motor starting
- Drip-proof, self-venting, amortisseur windings
- Epoxy impregnated windings with tropical insulation for increased environmental protection and long life

Electronic Voltage Regulator

- Circuitry senses true RMS voltage rather than average for superior load regulation

Full Load Acceptance

- Accepts 100% of standby nameplate rating in one step, in compliance with NFPA110 Standards

Generator Control Panel

- BASLER™ vibration-isolated controller
- Manual or remote engine start/stop
- RS232/Modbus communication support
- Safety shutdowns
- Externally mounted emergency stop switch
- Generator mainline circuit breaker, electronically operated, UL listed

Specially Designed Container

- 45 ft. ISO container, sound-attenuated, foam-lined for extremely quiet operation
- Solidly mounted battery rack and cooling system
- Integral vibration isolators
- Exterior polyurethane coating system provides long life in extreme operating conditions
- Interior DC lights and timer switch
- Crankcase filtration system
- Critical grade silencer with heat blankets

Warranty

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



2000 kW Containerized Diesel Generator Set

Alternator Specifications

Model 744RSL4056	Marathon Magna Max
Type	Rotating Field
Number of Leads	4 bar
Generator Type	Rotating Field; PMG
Voltage Regulator	Solid State, Digital, Model DVR2000
Insulation	NEMA MG1-1.66
Material	Class H
Temperature Rise	105° -130° C
Bearing: Number, Type	Single Sealed
Coupling	Flexible Disk
Amortisseur Windings	Full
Voltage Regulation	0.25 %
One Step Load Acceptance % of rating per NFPA-110	100
Peak Motor Starting HP	750
Generator Efficiency at Full Load	95.5%
Phase Sequence	ABC (L1, L2, L3)
L-L Harmonic Max Total	5.0%
L-L Harmonic Max Single	3.0%
Voltage Dip Upon Full Load Application (1 Step)	12.5% for 0.4 sec.
Voltage Rise Upon Full Load Rejection (1 Step)	17% for 0.7 sec.

The EGC2000C Sound Attenuated Generator is configured for standard 60 Hz, 480V output. Special voltage outputs are available (special order).

Alternator Features

- All ratings tested per MIL-STD-705 as applicable
- Protection for overload and short circuit
- Designed and built within NEMA, IEEE and ANSI standards for temperature rise
- PMG exciter for superior regulation and response
- Three-phase sensing on regulator
- Skewed rotor for smooth voltage wave form
- Optional-Vacuum impregnated epoxy varnish, fungus resistant per MIL-I-24092
- Listed to UL1446 and UL1004B Standards

Engine Specifications

EPA Engine Family Name 8CEXL060.AAD	Cummins / QSK60-G6
Engine Type	4-cycle, Turbocharged, Watercooled, Aftercooler
Cylinder Arrangement	16 VCC
Displacement	3673 cu in (60.2 L)
Bore	6.25 in. (159 mm)
Stroke	7.48 in. (190 mm)
Compression Ratio	14.5 : 1
Piston Speed	2243 ft/min (11.4 m/sec)
Bearing Main: Number	9
Bearing Main: Type	Replaceable, Precision
Cylinder Block	Cast iron with wet, replaceable cylinder liners
Cylinder Head Material	Cast iron
Crankshaft Material	Forged steel
Brake Mean Effective Pressure (Standby)	349 psi (2406 kPa)
Rated RPM (60Hz)	1800 RPM
Max. Power At Rated RPM	2922 hp (2180 kW)
Governor: Type; Make/Model	Electronic
Frequency Regulation: No load to full load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.5% of mean value for constant loads from no load to full load
Air Cleaner Type - All Models	Dry, Dual Element

Amperage

Voltage	Phase	Power Factor	Amperes	
			Standby	Prime
277/480 Volt	3	0.8	3010	2747

Engine Electrical System

Battery Charging Alternator Ground Type	Negative
Volts	24 VDC
Ampere Rating	55A
Starter Motor Rated Voltage	24 VDC
Minimum Recommended Battery for 0 °C / Cold Cranking Performance	1800 CCA

Exhaust System

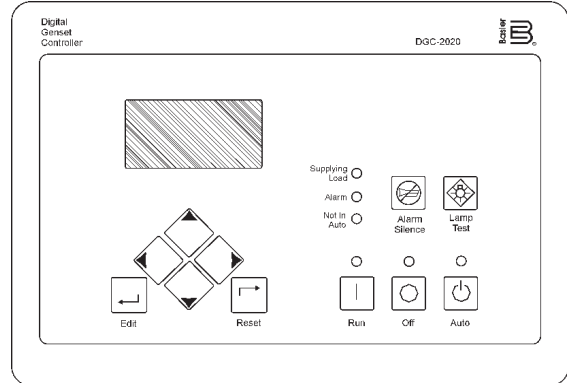
Exhaust Temperature at Rated kW (Dry Exhaust)	885°F (473°C)
Exhaust Flow at Rated kW (Standby)	14815 cfm (419.5 m³/min)
Silencer Type	Critical
Maximum Allowable Backpressure	2 in/Hg (51 mm/Hg)
Exhaust Outlet Size at hook-up	8 in. dia. (203 mm) x 4



2000 kW Containerized Diesel Generator Set

Cooling System

Exhaust Manifold Type	Dry
Radiator Design	Vertical discharge
Coolant Capacity - Engine Only	42 gal. (159 L)
Coolant Capacity - Engine and Radiator	51 gal (193 L)
Water Pump Design/Type	Belt Driven, Centrifugal
Coolant Flow	502 gal/min (1900 L/min)
Heat Rejection to Engine	32320 Btu/min (570 kW)
Fan Horsepower	67.0 hp (50.0 kW)
Thermostat Range	180-200°F (82-93°C)



DGC2020 Digital Genset Controller

Fuel System

Recommended Fuel	ASTM-D975/No.1 or No.2-D	
Filter Micron Size - 98% Efficiency	10	
Max Fuel Flow	158 gal/hr (598 L/hr)	
Fuel Consumption (Prime Power)		
Diesel at % of Load	gal/hr	L/hr
25%	40	153
50%	71	269
75%	98	370
100%	124	469

Lubrication System

Type	Full Pressure System
Oil Filters	4 Spin-on Full Flow
Oil Pan Capacity	69 gal. (261 L)
Oil Capacity with Filters	74 gal. (280 L)
Oil Pressure At Rated Speed	60-70 psi (345-483 kPa)

Derating

Engine power available up to 2400 ft. altitude and 77°F ambient temperature at the Standby rating, without derating. For operation at higher altitudes and ambient temperatures, the power should be derated according to the following factors:	Altitude	Ambient Temperature
	Above 2400ft. derate at 6% per 1000 ft.	Above 77°F derate at 10% per 18°F

Digital Controller Features

- Local and Remote Generator Control
- Automatic and manual starting and stopping
- Engine and Generator Protection
- Programmable Analog Engine Senders
- ECU Communications via SAE J1939
- 16 Programmable Contact Inputs
- Programmable Logic
- Automatic Transfer Switch Control (Mains Failure)
- Integrated RS485 Modbus Connection
- Auto Synchronizing
- Event recording

Monitoring

- Engine RPM
- Engine run time
- Generator voltage
- Generator current
- Generator frequency
- Oil pressure
- Battery voltage
- Fuel level measurements
- Running Hour Meter
- Coolant temperature
- Generator under/over voltage alarm/shutdown
- Generator under/over frequency alarm/shutdown
- Over Current alarm/shutdown
- Warm up and cooling functions
- Maintenance timer



2000 kW Containerized Diesel Generator Set

Optional Features and Accessories

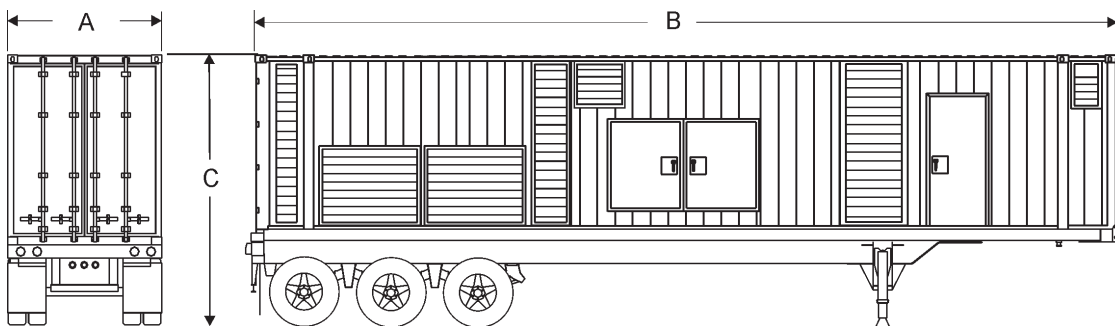
Generator Set

- Genset-to-Genset Paralleling Control System
- Base Load-to-Utility Paralleling Control System
- Custom Outlet Panels
- Rotary Voltage Selector Switch (High Wye/Low Wye Voltages)
- Auxiliary Oil Reservoir with Level Control (15-gallon)
- Centrifugal Oil Filter System
- Oil Pan Heater with Thermostat
- Alternator Strip Heater
- AC Battery Charger with Shore Power Receptacle
- Rotary Voltage Selector Switch
- 120VAC Convenience Receptacle
- Utility Grade Protective Relay

Container

- ISO Trailer Chassis (45 ft.)
- Double-wall Fuel Tank (1500-gallon capacity)
- Fluid Containment
- Manual Fuel Valves (For Internal or External Fuel Supply)
- Entrance Ladder (6-Step, Aluminum Construction)
- Fueling Ladder (Aluminum Step Construction with Hand Rail)
- Interior Lights (AC Work lights)
- Custom Paint Colors (Artic White is Standard)

SPECIAL OPTIONS AVAILABLE UPON REQUEST



45 ft. Container

Weight and Dimensions		
A	B	C
96 in.	540 in.	163 in.
Weight without chassis		76,400 lbs
Weight with chassis		85,260 lbs

* Weight is approximate and without fuel.

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. Features and specifications are subject to change without notice.

Your MQ Power dealer is:



MQ POWER
 POST OFFICE BOX 6254
 CARSON, CA 90749
 310-537-3700 • 800-421-1244
 FAX: 310-632-2656
 E-MAIL: mqpower@multiquip.com