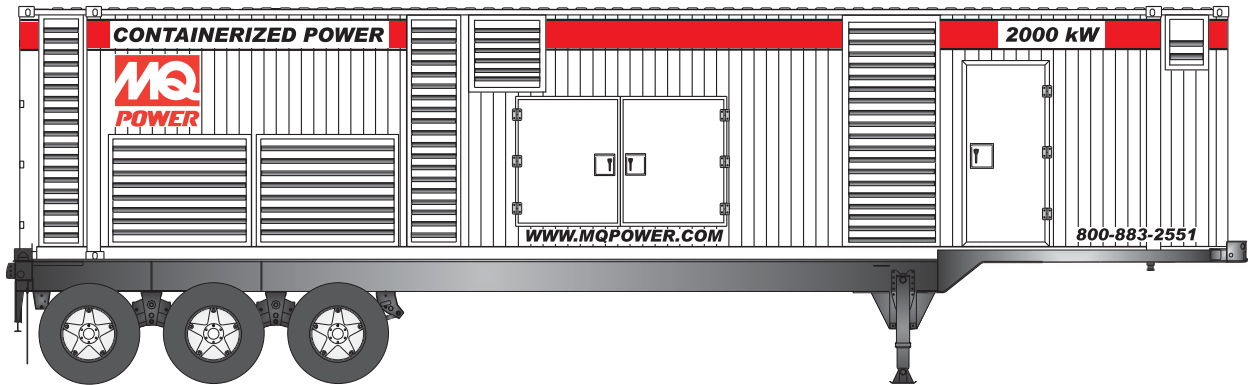




# 2000 kW Containerized Diesel Generator Set

| 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

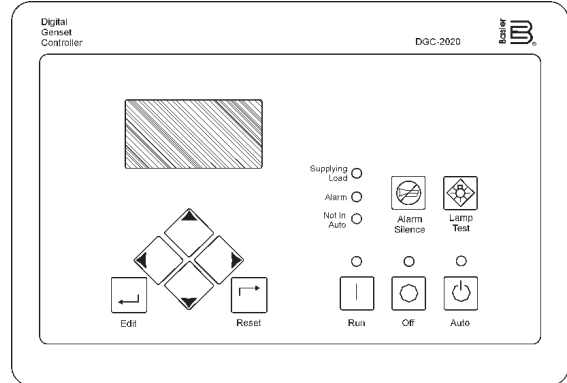
|   |                          |
|---|--------------------------|
| Exhaust Temperature at Rated kW (Dry Exhaust) | 885°F (473°C)            |
| Exhaust Flow at Rated kW (Standby)            | 14815 cfm (419.5 m³/min) |
| Silencer Type                                 | Critical                 |
| Maximum 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

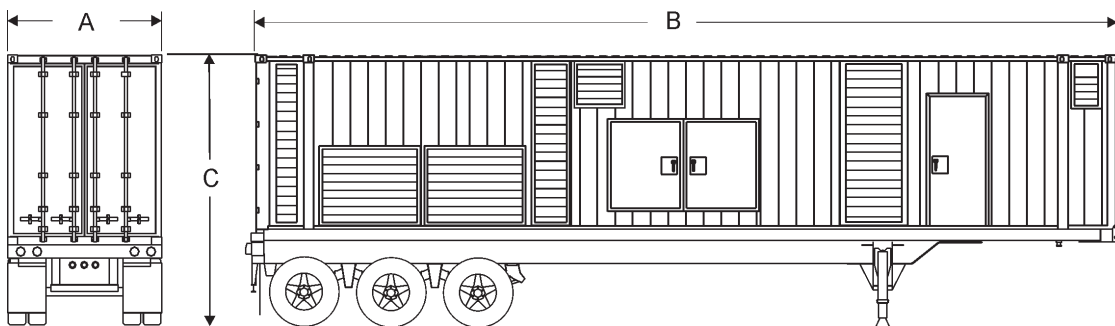
### Generator Set

- 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

| <b>Weight and Dimensions</b> |          |            |
|------------------------------|----------|------------|
| <b>A</b>                     | <b>B</b> | <b>C</b>   |
| 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