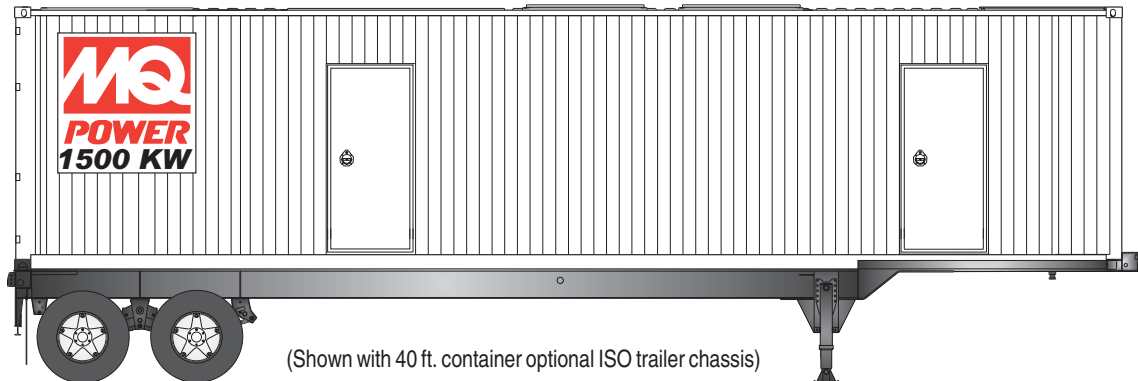




1500 kW Containerized Diesel Generator Set

| Model | Emissions | Standby Rating | Prime Rating |
|----------|---------------|------------------|------------------|
| EGC1500C | EPA Certified | 60 Hz | |
| | | 1500kW (1875kVA) | 1250kW (1562kVA) |



Standard Features

Cummins Heavy Duty Diesel Engine

- 4-cycle design, turbocharged, aftercooled, direct injection
- Polymide blade cooling fan
- Engine coolant heater
- Meets Tier 2 EPA emissions standards

Fuel System

- 1000 gallon, single wall fuel tank
- Electric fuel priming system
- Fuel/water separators & drip pan
- Electric fuel run 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

Automatic 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
- RS485/Modbus communication support
- Safety shutdowns
- Externally mounted emergency stop switch
- Generator mainline circuit breaker, electronically operated, UL listed

Specially Designed Container

- 40 ft. ISO container, sound-attenuated, foam-lined for extremely quiet operation
- Isolated operator control room
- 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



1500 kW Containerized Diesel Generator Set

Alternator Specifications

| | |
|---|-------------------------------------|
| Model 742RSL4050 | 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% |
| 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 EGC1500C 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 Family Name 8CEXL050.AAD | Cummins QSK50-G4 |
| Engine Type | 4-cycle, Turbocharged, Watercooled, Aftercooler |
| Cylinder Arrangement | V 16 |
| Displacement | 3067 cu in (50.3 L) |
| Bore | 6.25 in. (159 mm) |
| Stroke | 6.25 in. (159 mm) |
| Compression Ratio | 14.9 : 1 |
| Piston Speed (60Hz) | 1875/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 (BMEP) | 318.0 psi (2192.5 kPa) |
| Rated RPM (60Hz) | 1800 RPM |
| Max. Power At Rated RPM (with fan) | 2250 hp (1703 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 | ±0.25% 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 | 2255 | 1879 |

Engine Electrical System

| | |
|--|----------|
| Battery Charging Alternator Ground Type | Negative |
| Volts | 24 VDC |
| Ampere Rating | 45A |
| Starter Motor Rated Voltage | 24 VDC |
| Minimum Recommended Battery for 0 °C / Cold Cranking Performance | 1800 CCA |

Exhaust System

| | |
|---|------------------------|
| Exhaust Temperature at Rated kW (Standby) | 965°F (520°C) |
| Exhaust Flow at Rated kW (Standby) | 10690 cfm (302 m³/min) |
| Silencer Type | Critical |
| Maximum Allowable Backpressure | 2 in/Hg (51 mm/Hg) |
| Exhaust Outlet Size at hook-up | 8 in. (203 mm) |



1500 kW Containerized Diesel Generator Set

Cooling System

| | |
|-------------------------------------|--------------------------|
| Exhaust Manifold Type | Dry |
| Radiator Design | Standard Horizontal |
| Coolant Capacity - Engine Only | 37 gal. (140 L) |
| Water Pump Design/Type | Belt Driven, Centrifugal |
| Coolant Flow | 100 gal/min (378 L/min) |
| Heat Rejection to Coolant (Standby) | 40600 Btu/min (715 kW) |
| Thermostat Range | 180-200°F (82-93°C) |

Fuel System

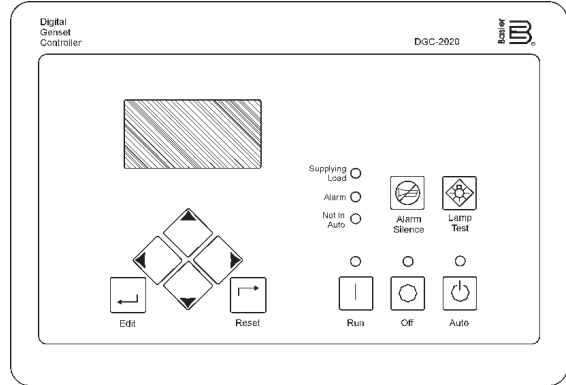
| | |
|-------------------------------------|--------------------------|
| Recommended Fuel | ASTM-D975/No.1 or No.2-D |
| Fuel Pump Maximum Lift | 6.0 ft. (1.8 m) |
| Filter Micron Size - 98% Efficiency | 2 |
| Total Fuel Flow | 183 gal/hr (693 L/hr) |
| Fuel Consumption (Prime Power) | |
| At % of Load | gal/hr (L/hr) |
| 25% | 29.2 (111) |
| 50% | 47.6 (180) |
| 75% | 68.0 (257) |
| 100% | 87.3 (330) |

Lubrication System

| | |
|-----------------------------|-------------------------|
| Type | Full Pressure System |
| Oil Filters | 5 Spin-on Full Flow |
| Oil Pan Capacity | 47 gal. (178 L) |
| Oil Capacity with Filters | 54 gal. (204 L) |
| Oil Pressure At Rated Speed | 50-70 psi (345-483 kPa) |

Derating

| | | |
|--|--|----------------------------------|
| Engine power available up to 1850 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 1850 ft. derate at 6% per 1000 ft. | Above 77°F derate at 1% per 10°F |



DGC2020 Digital Genset Controller

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



1500 kW Containerized Diesel Generator Set

Optional Features and Accessories

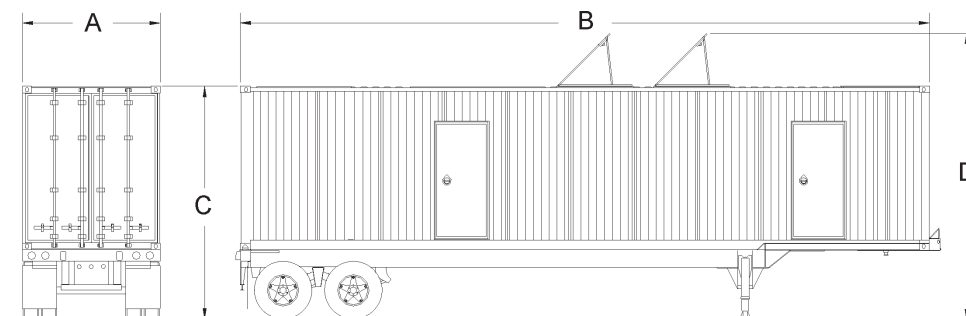
Generator Set

- 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
- 120VAC Convenience Receptacle
- Utility Grade Protective Relay

Container

- ISO Trailer Chassis (40 ft.)
- Double-wall Fuel Tank (900-gallon capacity)
- Fluid Containment
- Manual Fuel Valves (For Internal or External Fuel Supply)
- Entrance Ladder (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



40 ft. Container

| Weight and Dimensions | | | |
|------------------------------|------------------------|------------------------|-----------------------|
| A | B | C | D |
| 96 in. (2,438 mm) | 480 in. (12,192 mm) | 163 in. (4,137 mm) | 199 in. (5,054 mm) |
| Weight (Wet)* | | 46,480 lbs (21,083 kg) | |
| Weight (Wet with trailer)* | | 53,220 lbs (24,140 kg) | |

* Weight is approximate. Wet weight does not include 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:



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 FAX: 310-632-2656
 E-MAIL: mqpower@multiquip.com