



DCA56SPXD

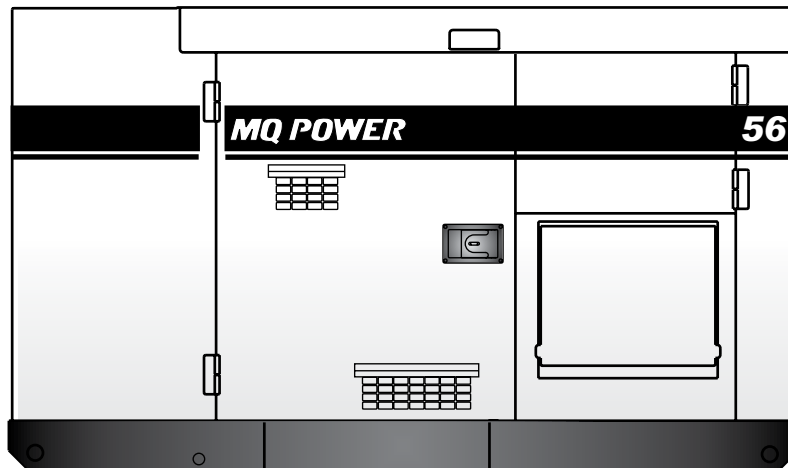
MQ POWER Series Generator

WhisperWatt™

Prime Rating — 56 kW (56 kVA)

Standby Rating — 62 kW (62 kVA)

Single-Phase, 60 Hertz, 1.0 PF



STANDARD FEATURES

- **Heavy duty, 4-cycle, direct injection, turbocharged diesel engine** — provides maximum reliability.
- **Brushless alternator** — reduces service and maintenance requirements and meets temperature rise standards for Class H insulation systems.
- **Open delta alternator design** — provides virtually unlimited excitation for maximum motor starting capability.
- **Automatic voltage regulator (AVR)** — provides precise regulation.
- **Full load acceptance** — of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- **Sound attenuated, weather resistant, steel housing** — provides ultrasilent operation at 68 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- **Integrated fuel tank** — with direct reading fuel gauges are standard.
- **Seven-stage powder coat paint** — provides durability and weather protection.
- **Electronic Governor Control** — maintains frequency to within $\pm 0.25\%$ from no load to full load.
- **Fuel/water separator** — removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- **Complete microprocessor-based digital controller** — providing all AC & DC instrumentation as well as engine operating parameters shown on a backlit liquid crystal display (LCD).
- **Automatic safety shutdown system** — monitors the water temperature, engine oil pressure, overspeed and overcrank. Warning lights indicate abnormal conditions.
- **Automatic start/stop control** — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.
- **Complete power panel** — fully covered; single-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.
- **EPA emissions certified** — Tier 3 emissions compliant.



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SPECIFICATIONS

Generator Specifications	
Design	Revolving field, self-ventilated Drip-proof, single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	62 KW
Prime Output	56 KW
Generator RPM	1800
Voltage — 1Ø	120/240
Voltage Regulation (No load to full load)	±0.5%
Power Factor	1.0
Frequency	60 Hz
Frequency Regulation: No Load to Full Load	Isynchronous 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 H
Sound Level dB(A) Full load at 23 feet	68

Engine Specifications	
Make / Model	Isuzu / BJ-4JJ1X
Emissions	EPA Tier 3 Certified
Starting System	Electric
Design	4-cycle Water cooled, Direct injection, Turbocharged, Charge air cooled
Displacement	183.0 in ³ (2999 cc)
No. cylinders	4
Bore x Stroke	95.4 mm x 104.9 mm
Gross Engine Power Output	97.9 hp (73 KW)
BMEP	204 psi (1409 kPa)
Piston Speed	1237 ft/min (6.29 m/s)
Compression Ratio	17.5 : 1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil Capacity	3.96 gal (15 L)
Battery	12V 72Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No. 1 & No. 2-D	
Maximum Fuel Flow (per hour)	16 gal (61 L)	
Maximum Inlet Restriction (Hg)	5.9 in. (150 mm)	
Fuel Tank Capacity	40.0 gal (150 L)	
Fuel Consumption	gph	lph
At full load	4.1	15.4
At 3/4 load	3.1	11.9
At 1/2 load	2.2	8.4
At 1/4 load	1.4	5.2

Cooling System	
Fan Load	2.8 HP (2.1 KW)
Coolant Capacity (with radiator)	3.09 gal (11.7 L)
Coolant Flow Rate (per minute)	15.4 gal (58.5 L)
Heat Rejection to Coolant (per minute)	2260 Btu (2.38 MJ)
Maximum Coolant Friction Head	6.1 psi (42 kPa)
Maximum Coolant Static Head	21 ft (6.4 m)
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	138 cfm (3.9 m ³ /min)
Maximum Air cleaner Restriction	25.0 in. H ₂ O (6.25 kPa)
Alternator Cooling Air	911 cfm (25.8 m ³ /min)
Radiator Cooling Air	3240 cfm (91.8 m ³ /min)

Exhaust System	
Gas Flow (full load)	332 cfm (9.4 m ³ /min)
Gas Temperature	932°F (500°C)
Maximum Back Pressure	53.2 in. H ₂ O (13.3 kPa)

Amperage	
Rated Voltage	Maximum Amps
1Ø 120 Volt	233 x 2
1Ø 240 Volt	233
Main Line Circuit Breaker Rating	250 Amps

WARRANTY*

Isuzu Engine

12 months from date of purchase or 1800 hours (whichever occurs first).

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, shock and/or property damage. **DO NOT** connect to any building's electrical system except through an approved device.

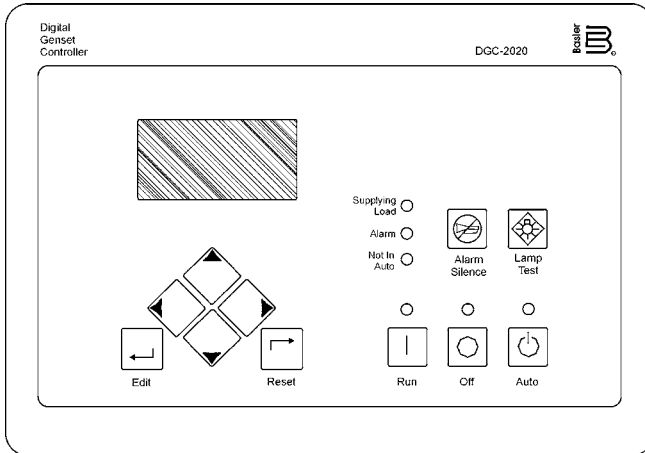
Specifications are subject to change without notice.



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DIGITAL GENERATOR CONTROLLER



- Basler DGC-2020™ microprocessor-based digital generator controller.
- Local and Remote Generator Control
- Engine and Generator Protection
- Programmable Analog Engine Senders
- ECU Communications via SAE J1939
- Programmable Logic
- Automatic Transfer Switch Control
- Integrated RS485

STANDARD CONTROLLER FEATURES

Generator Protection and Metering:

- Voltage
- Current
- Frequency
- Real Power (Watts)
- Apparent Power (VA)
- Power Factor

Event Recording:

- Up to 30 event types
- Time/Date Stamp Capability

Communication:

- USB port and SAE J1939 interface
- CAN Bus Interface
- Low Coolant Level

Engine Protection and Metering:

- Oil Pressure
- Coolant Temperature
- Engine Temperature
- Battery Voltage
- Speed
- Fuel Level
- Engine Load
- ECU Specific parameters
- Run-time statistics

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
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

WhisperWatt at 23 feet



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.
- **Low Coolant Level Shutdown** — provides protection from critically low coolant levels. Includes control panel warning light.
- **Spring Isolators** — provide seismic vibration dampening for standby applications.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electric or surge brakes with tandem axle configuration. Extra capacity fuel tanks are also available.

OPTIONAL CONTROL FEATURES

- **Emergency Stop Switch** — when manually activated shuts down generator in the event of an emergency.
- **Audible alarm** — alerts operator of abnormal conditions

OPTIONAL OUTPUT CONNECTIONS

- **Cam-Lok Connectors** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — Appleton, Crouse-Hinds
- **Output Cable** — Type G, Type W

OPTIONAL FUEL CELL FEATURES

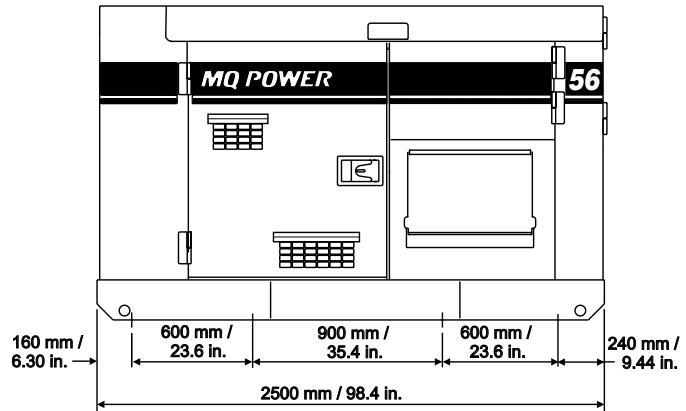
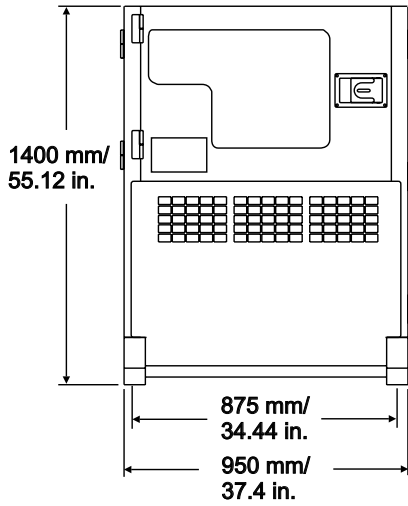
- **Trailer Fuel Tank** — a second fuel cell located in the trailer allows for extended run time.
- **Sub-base Fuel Cells (Double Wall)** — Additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
 - 12 hours of minimum run time.
 - 24 hours of minimum run time.



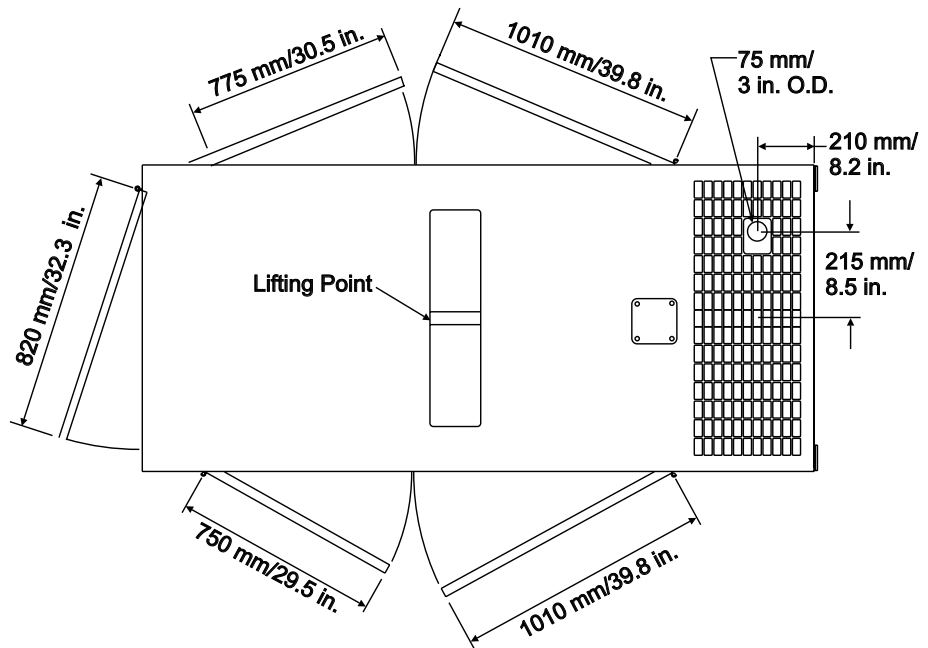
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DIMENSIONS



Weight	
Dry Weight	3,109 lbs. (1,410 kg)
Wet Weight	3,418 lbs. (1,550 kg)
Max. Lifting Point Capacity	5,150 lbs. (2,336 kg)



Generator can be placed on MQ Models TRLR75XF and TRLR85XF Tandem Axle Trailers.

Manufactured by Denyo Co.

Your Multiquip dealer is:

