



# DCA56SPXD

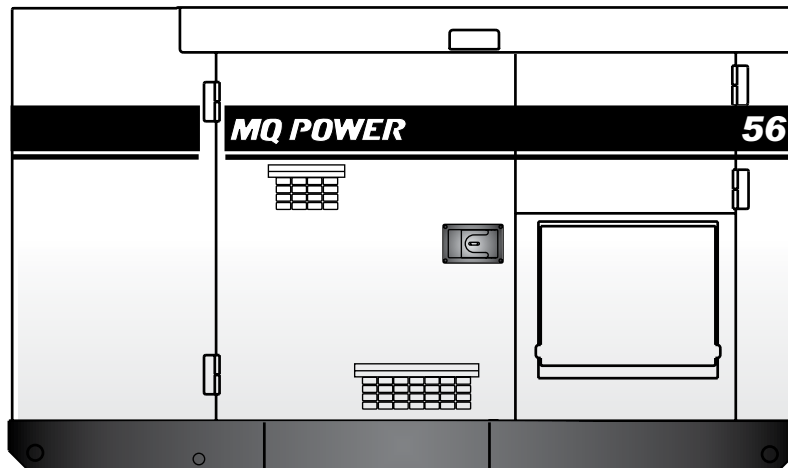
## MQ POWER Series Generator

### 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<br>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<br>(No load to full load)  | ±0.5%   |
| Power Factor                                  | 1.0   |
| Frequency                                     | 60 Hz   |
| Frequency Regulation:<br>No Load to Full Load | Isosynchronous under varying loads from<br>no load to 100% rated load |
| Frequency Regulation:<br>Steady State         | ±0.25% of mean value for constant loads<br>from no load to full load  |
| Insulation                                    | Class H   |
| Sound Level dB(A)<br>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,<br>Turbocharged, Charge air cooled |
| Displacement              | 183.0 in <sup>3</sup> (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 <sup>3</sup> /min)    |
| Maximum Air cleaner Restriction | 25.0 in. H <sub>2</sub> O (6.25 kPa) |
| Alternator Cooling Air          | 911 cfm (25.8 m <sup>3</sup> /min)   |
| Radiator Cooling Air            | 3240 cfm (91.8 m <sup>3</sup> /min)  |

| Exhaust System        |                                      |
|-----------------------|--------------------------------------|
| Gas Flow (full load)  | 332 cfm (9.4 m <sup>3</sup> /min)    |
| Gas Temperature       | 932°F (500°C)                        |
| Maximum Back Pressure | 53.2 in. H <sub>2</sub> 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.

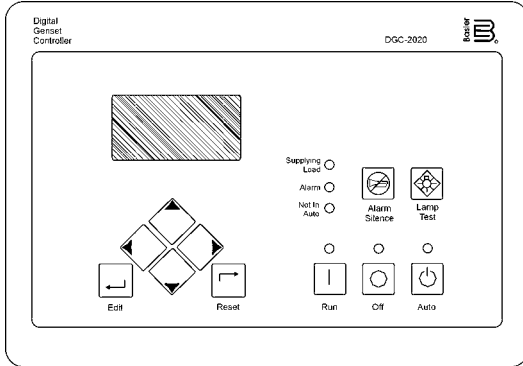
**Specifications are subject to change without notice.**



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## MQ POWER Series Generator

### DIGITAL GENERATOR CONTROLLER



- Basler DGC-2020TM 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
- Frequency
- Power Factor
- Current
- Real Power (Watts)
- Apparent Power (VA)

#### Event Recording:

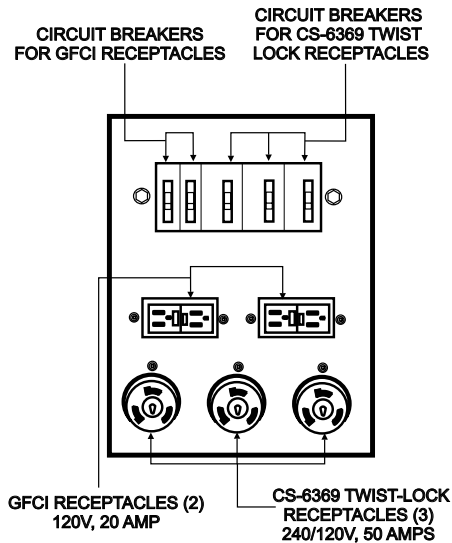
- Up to 30 event types
- Time/Date Stamp Capability

#### Communication:

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

#### Engine Protection and Metering:

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



### 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

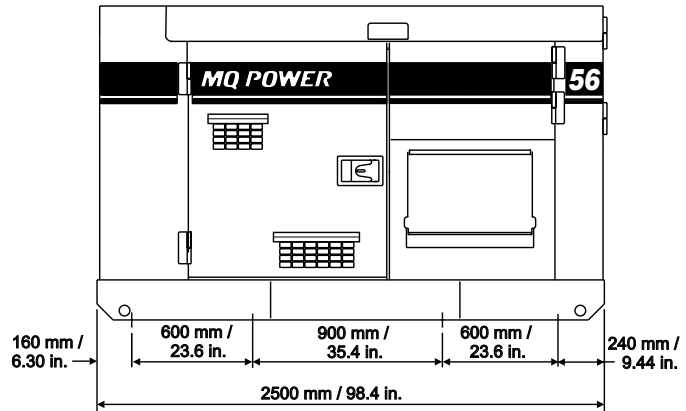
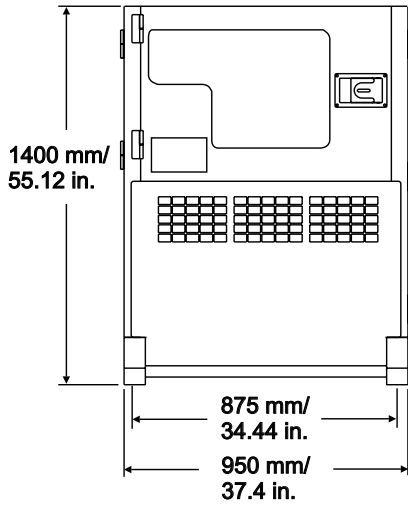
- **Trailer Fuel Tank** — a second fuel cell located in the trailer allows for extended run time.
- **Sub-base Fuel Cells (Double Wall)** — Additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
  - 12 hours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



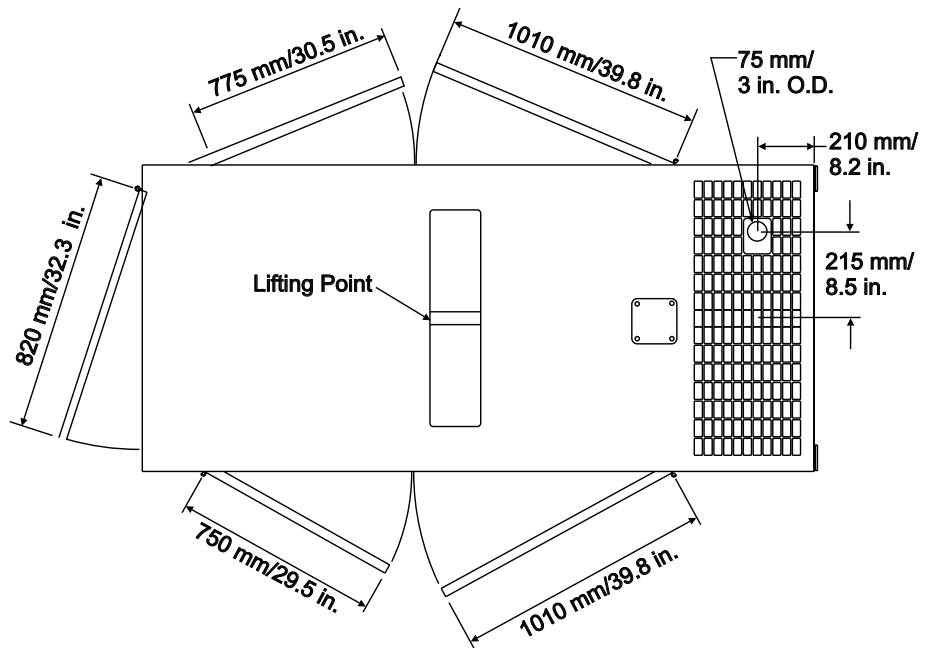
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## MQ POWER Series Generator

### 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:

