



**ServiceMaster DSI**  
2400 Wisconsin Ave, Downers Grove, IL 60515  
1-800-954-9444  
www.ServiceMasterDSI.com

## DCA45SSI

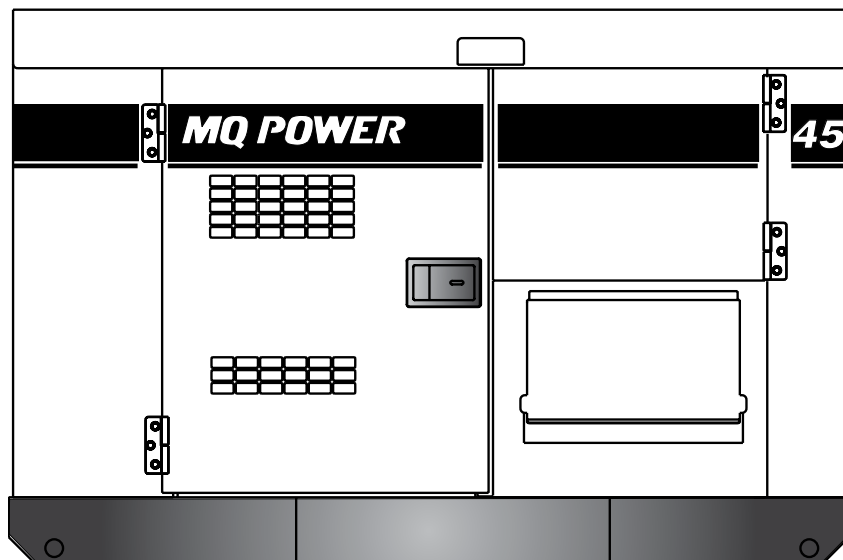
MQ POWER Series Generator

### WhisperWatt™

Prime Rating - 36 kW (45 kVA)

Standby Rating - 40kW (50kVA)

Three-Phase, 60 Hertz, 0.8 PF



### STANDARD FEATURES:

- Heavy duty, 4-cycle, direct injection, diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class H insulation systems.
- Open delta excitation design provides virtually unlimited excitation for maximum motor starting capability.
- Automatic voltage regulator (AVR) provides precise regulation.
- Electronic Governor Control — maintains frequency to within  $\pm 0.25\%$  from no load to full load.
- Full load acceptance of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- Sound attenuated, weather resistant, steel housing provides operation at 65 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- Internal fuel tank with direct reading of fuel gauge.
- Seven stage powder coat paint system provides durability and weather protection.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Complete engine analog instrumentation includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, preheat indicator, emergency shutdown monitors.
- Automatic start/stop control — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.
- Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed and over crank. Warning lights indicate abnormal conditions.
- Complete power panel. Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. The GFCI receptacles are NEMA 5-20, and the auxiliary outputs use CS6369 twistlock receptacles.
- Simultaneous single and three phase power.
- Voltage selector switch offers the operator a wide range of voltages that are manually selectable. Fine tuning of the output voltage can be accomplished by adjusting the voltage regulator control knob to obtain the desired voltage.
- EPA emissions certified - Interim Tier 4 emissions compliant.



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## SPECIFICATIONS:

| Generator Specifications                      |   |         |
|---|---|---------|
| Design  | Revolving field, self-ventilated<br>Drip-proof, single bearing        |         |
| Armature Connection                           | Star with Neutral   | Zig Zag |
| Phase   | 3   | Single  |
| Standby Output                                | 40 KW (50 KVA)  | 27.6 KW |
| Prime Output                                  | 36 KW (45KVA)   | 26 KW   |
| 3Ø Voltage (L-L/L-N)                          | 208Y/120, 220Y/127,<br>240Y/139                                       | N/A     |
| Voltage Selector Switch at 3Ø 240/139         |   |         |
| 3Ø Voltage (L-L/L-N)                          | 416Y/240, 440Y/254,<br>480Y/277                                       | N/A     |
| Voltage Selector Switch at 3Ø 480/277         |   |         |
| 1Ø Voltage (L-L/L-N)                          | N/A   | 240/120 |
| (Voltage Selector Switch at 1Ø 240/120)       |   |         |
| Power Factor                                  | 0.8   | 1.0     |
| Voltage Regulation (No load to full load)     | ±0.5%   |         |
| Generator RPM                                 | 1800  |         |
| Frequency                                     | 60 Hz   |         |
| No. of Poles                                  | 4   |         |
| Excitation                                    | Brushless with AVR  |         |
| Frequency                                     | 60 Hz   |         |
| Frequency Regulation:<br>No Load to Full Load | Isochronous under varying loads from<br>no load to 100% rated load    |         |
| Frequency Regulation: Steady State            | ±0.25% of mean value for constant<br>loads from no load to full load. |         |
| Insulation                                    | Class H   |         |
| Sound Level dB(A) Full load at 23 feet        | 65  |         |

| Engine Specifications     |  |
|---------------------------|--|
| Make/Model                | Isuzu/BU-4JJ1T   |
| Emissions                 | EPA Interim Tier 4 Certified                             |
| Starting System           | Electric   |
| Design                    | 4-cycle, water cooled, direct injection,<br>turbocharged |
| Displacement              | 183.0 in3 (2999 cc)                                      |
| No. Cylinders             | 4  |
| Bore x Stroke (mm)        | 95.4 x 104.9   |
| Gross Engine Power Output | 67.1 bhp (50 kW)   |
| BMEP                      | 136 psi (940 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              | 2.25 gallons (8.5 liters)                                |
| Battery                   | 12V 72Ah x 1   |

| Fuel System                    |                           |            |
|--------------------------------|---------------------------|------------|
| Recommended Fuel               | ASTM-D975-No. 1 & No. 2-D |            |
| Maximum Fuel Flow (per hour)   | 16 gallons (61 liters)    |            |
| Maximum Intel Restriction (Hg) | 5.9 in. (150 mm)          |            |
| Fuel Tank Capacity             | 26.5 gallons (100 liters) |            |
| <b>Fuel Consumption</b>        | <b>gph</b>                | <b>lph</b> |
| At full load                   | 2.8                       | 10.6       |
| At 3/4 load                    | 2.1                       | 8.0        |
| At 1/2 load                    | 1.5                       | 5.6        |
| At 1/4 load                    | 0.9                       | 3.4        |

| Cooling System                         |                            |
|--|----------------------------|
| Fan Load                               | 0.94 hp (0.7 kW)           |
| Coolant Capacity (with radiator)       | 2.96 gallons (11.2 liters) |
| Coolant Flow Rate (per minute)         | 15.4 gallons (58.5 liters) |
| Heat Rejection to Coolant (per minute) | 1640 Btu (1.73 MJ)         |
| Heat Rejection to Room (per minute)    | 379 Btu (0.40 MJ)          |
| Maximum Coolant Friction Head          | 6.1 psi (42 kPa)           |
| Maximum Coolant Static Head            | 21 feet (6.4 meters)       |
| Ambient Temperature Rating             | 104°F(40°C)                |

| Air                             |                                    |
|---------------------------------|------------------------------------|
| Combustion Air                  | 99 cfm (2.8 m³/min)                |
| Maximum Air Cleaner Restriction | 25 in. H <sub>2</sub> O (6.25 kPa) |
| Alternator Cooling Air          | 526 cfm (14.9 m³/min)              |
| Radiator Cooling Air            | 2330 cfm (66 m³/min)               |

| Exhaust System        |                                      |
|-----------------------|--------------------------------------|
| Gas Flow (full load)  | 233 cfm (6.6 m³/min)                 |
| Gas Temperature       | 896°F (480°C)                        |
| Maximum Back Pressure | 53.2 in. H <sub>2</sub> O (13.3 kPa) |

| Amperage |   |  |
|----------|---|--|
|          | Rated Voltage                                       | Maximum Amps                           |
|          | 1Ø 120 Volt   | 100 Amps (4 wire)<br>108A x 2 (Zigzag) |
|          | 1Ø 120 Volt   | 50 Amps (4 wire)<br>108A (Zigzag)      |
|          | 3Ø 240 Volt   | 108 Amps                               |
|          | 3Ø 480 Volt   | 54 Amps                                |
|          | Main Line Circuit Breaker Rating                    | 125 Amps                               |
|          | Over Current Relay Trip Set Point<br>480V Mode Only | 54 Amps                                |

### WARRANTY\*

#### Isuzu Engine

12 months from date of purchase with unlimited hours or  
 24 months from date of purchase with 2000 hours (whichever  
 comes 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.

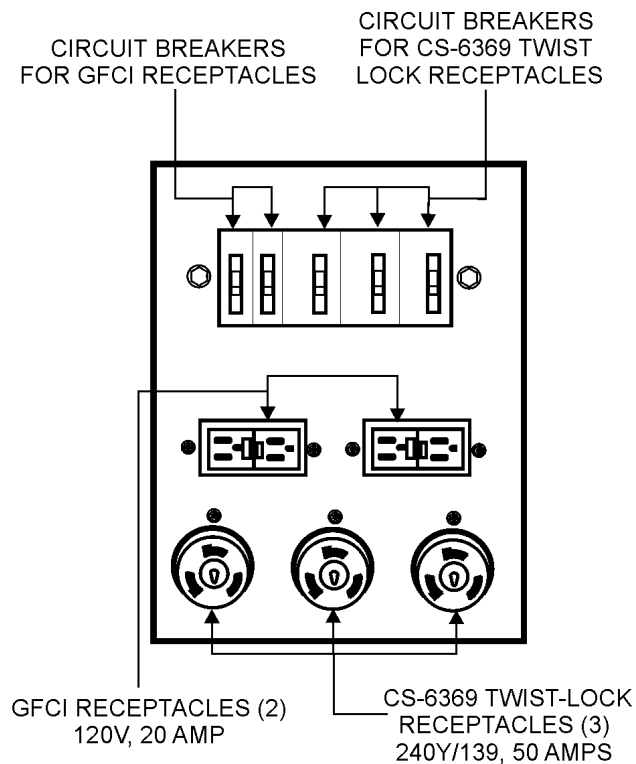
### MQ POWER DECIBEL LEVELS

Our soundproof housing allows substantially lower operating noise levels than competitive design. 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  
 — WhisperWatt™ at 23 feet
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

**65.0 DECIBELS**

### GENERATOR OUTPUT PANEL:



### 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** — provides extra vibration protection for standby applications.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electric or surge-hydraulic brakes with double or triple axle configuration.

### 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** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.

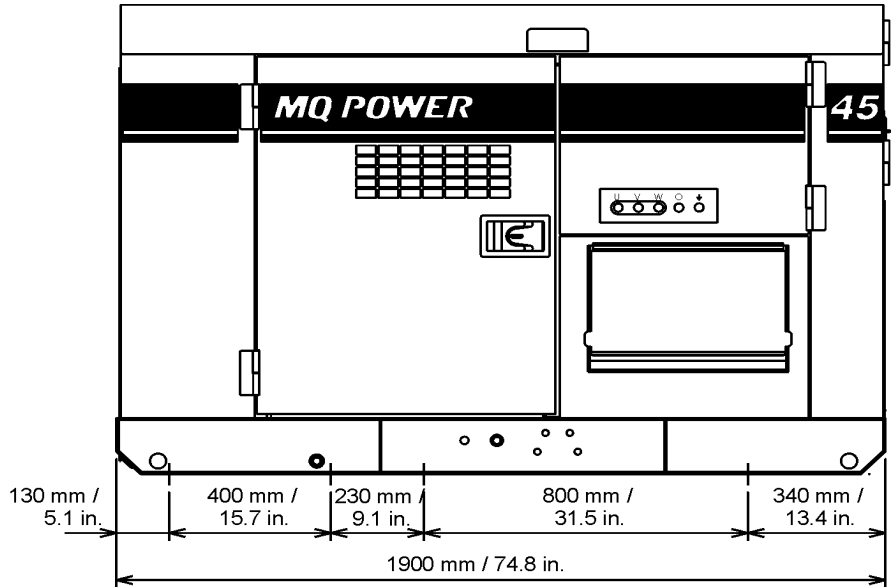
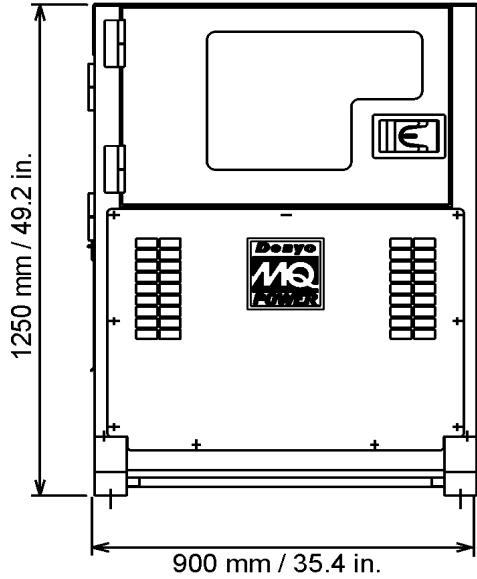
### OPTIONAL FUEL CELL FEATURES

- **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.

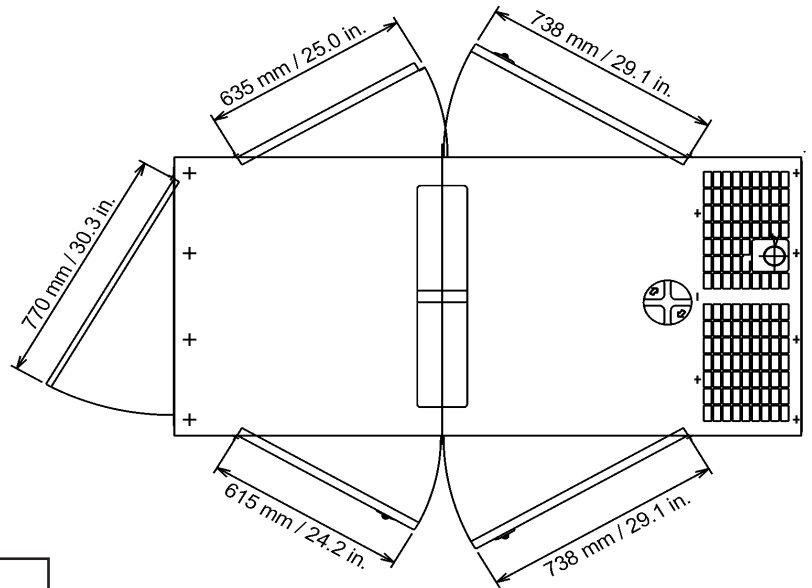


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**DIMENSIONS:**



| Weight                      |                       |
|-----------------------------|-----------------------|
| Dry Weight                  | 2,227 lbs. (1,010 kg) |
| Wet Weight                  | 2,464 lbs. (1,117 kg) |
| Max. Lifting Point Capacity | 5,150 lbs. (2,335 kg) |



Generator can be placed on MQ Power Models TRLR70, TRLR70XF, TRLR75XF, and TRLR85XF Trailers.

Your SRM dealer is: