



DCA40SSKU

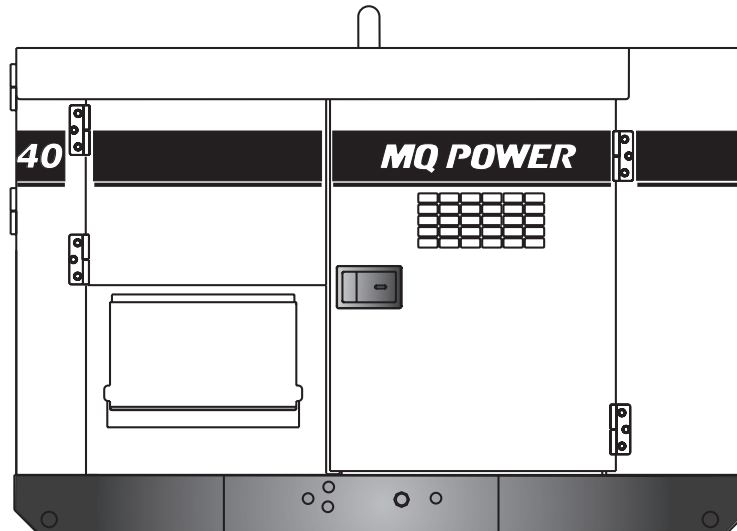
MQ POWER Series Generator

WhisperWatt™

Prime Rating — 30 kW (37 kVA)

Standby Rating — 31 kW (39 kVA)

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 fuel level gauge, hour meter, preheat indicator, emergency shutdown monitors, and keyed start switch.
- Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, and circuit breaker.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, and overspeed. 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 twist-lock 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 - Tier 4i 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	31 KW (39 KVA)
Prime Output	30 KW (37 KVA)
Generator RPM	1800
Voltage - 3Ø	208, 220, 240, 416, 440, 480 V
Voltage - 1Ø	120, 127, 139, 240, 254, 277 V
Armature Connection	Star with Neutral/Zig Zag
Power Factor	0.8
Voltage Regulation (No load to full load)	±0.5%
Frequency	60 Hz
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.
Insulation	Class H
Sound Level dB(A) Full load at 23 feet	65

Engine Specifications	
Make / Model	Kubota / V3300-E3BG
Emissions	EPA Interim Tier 4 Certified
Starting System	Electric
Design	4-cycle, water cooled, swirl chamber
Displacement	202.48 in ³ (3318 cc)
No. cylinders	4
Bore x Stroke	3.86 x 4.33 in. (98 x 110 mm)
Gross Engine Power Output	48.9 hp (36.5 kW)
BMEP	103 psi (709 kPa)
Piston Speed	1417 ft./min. (7.2 m/s)
Compression Ratio	22.6:1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil Capacity	3.5 gallons (13.2 liters)
Battery	12V 72Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Maximum Fuel Flow (per hour)	4.1 gallons (15.4 liters)	
Maximum Inlet Restriction (Hg)	3.5 in. (90 mm)	
Fuel Tank Capacity	26.0 gallons (100 liters)	
Fuel Consumption	gph	lph
At full load	2.6	9.8
At 3/4 load	1.9	7.3
At 1/2 load	1.4	5.4
At 1/4 load	1.0	3.8

* - Use ultra-low sulfur diesel fuel.

Exhaust System	
Gas Flow (full load)	230 cfm (6.5 m ³ /min)
Gas Temperature	932°F (500°C)
Maximum Back Pressure	28.4 in. H ₂ O (7.1 kPa)

Cooling System	
Fan Load	0.94 hp (0.7 kW)
Coolant Capacity (with radiator)	2.91 gallons (11.0 liters)
Coolant Flow Rate (per minute)	22.4 gallons (85 liters)
Heat Rejection to Coolant (per minute)	1933 Btu (2.04 MJ)
Maximum Coolant Friction Head	N/A
Maximum Coolant Static Head	N/A
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	92 cfm (2.6 m ³ /min)
Maximum Air Cleaner Restriction	25 in. H ₂ O (6.25 kPa)
Alternator Cooling Air	526 cfm (14.9 m ³ /min)
Radiator Cooling Air	2225 cfm (63 m ³ /min)
Minimum Air Opening to Room	3.88 ft ² (0.36 m ²)
Minimum Discharge Opening	2.36 ft ² (0.22 m ²)

Amperage	
Rated Voltage	Maximum Amps
1Ø 120 Volt	82 Amps (4 wire) 89 A x 2 (Zigzag)
1Ø 240 Volt	41 Amps (4 wire) 89A (Zigzag)
3Ø 240 Volt	89 Amps
3Ø 480 Volt	44 Amps
Main Line Circuit Breaker Rating	100 Amps
Over Current Relay Trip Set Point 480V Mode Only	44 Amps

WARRANTY*

Kubota 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.



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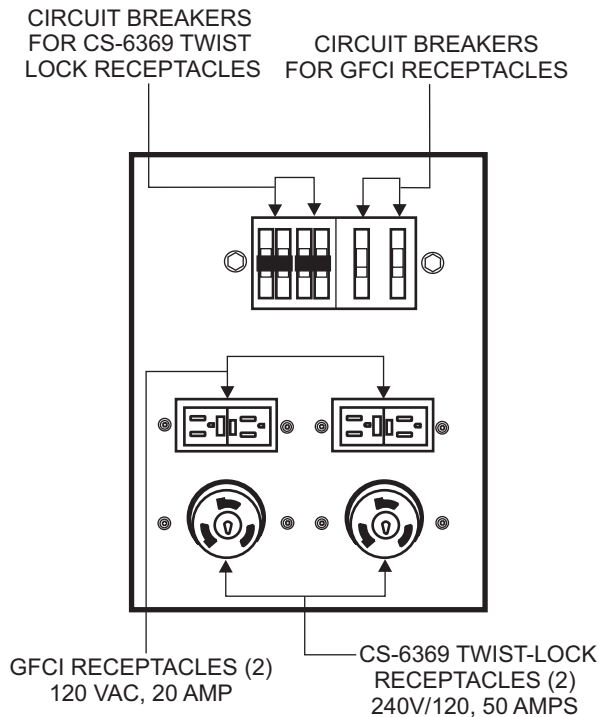
MQ POWER DECIBEL LEVELS

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
— WhisperWatt™ at 23 feet
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation



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.
- **Spring Isolators** — provides seismic vibration dampening for stationary 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

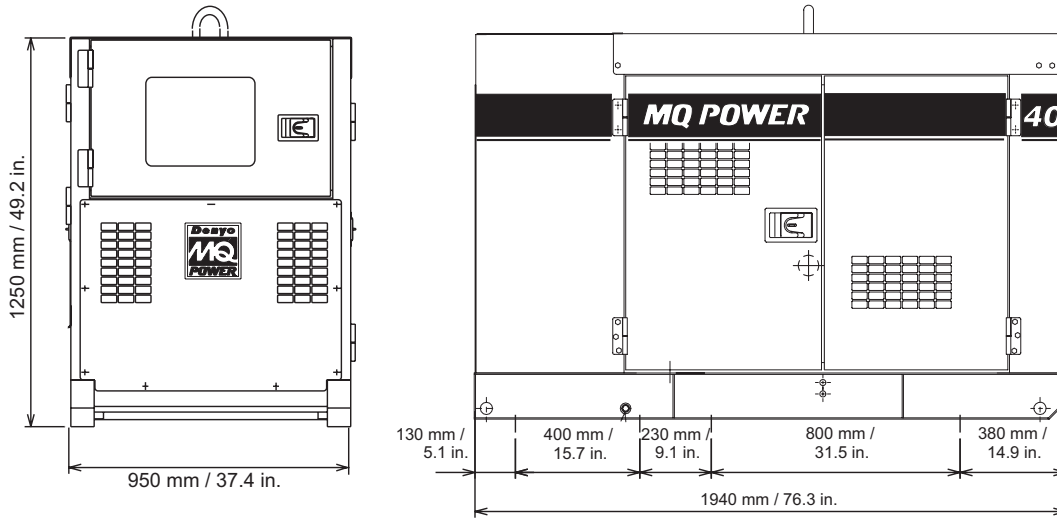
- **Trailer Fuel Tank** — a second fuel cell located in the trailer allows for extended run time.
- **Sub-base Fuel Cells (Double Wall)** — Additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
 - 12 hours of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



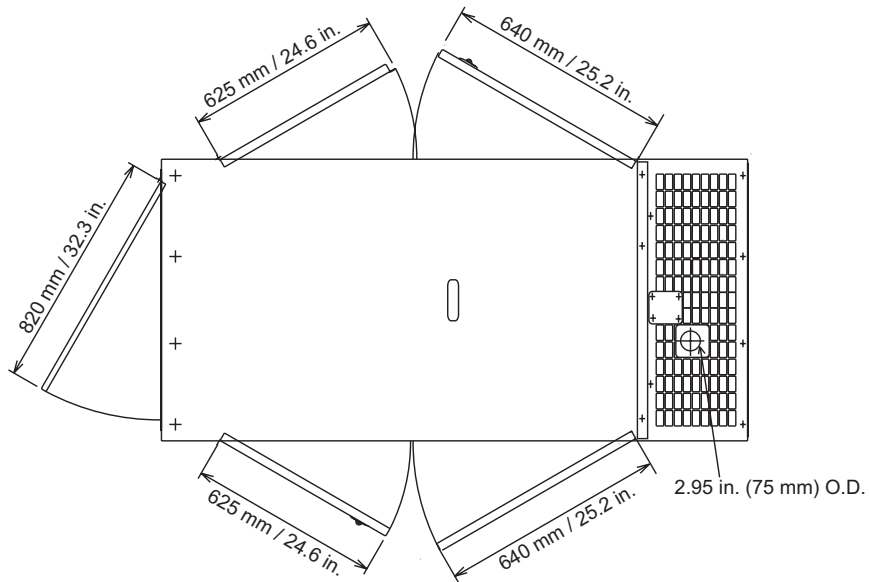
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DIMENSIONS



Weight	
Dry Weight	2,039 lbs. (925 kg)
Wet Weight	2,282 lbs. (1,035 kg)
Max. Lifting Point Capacity	5,150 lbs. (2,315 kg)



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



Manufactured by Denyo Co.

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