



DCA45SSIU3

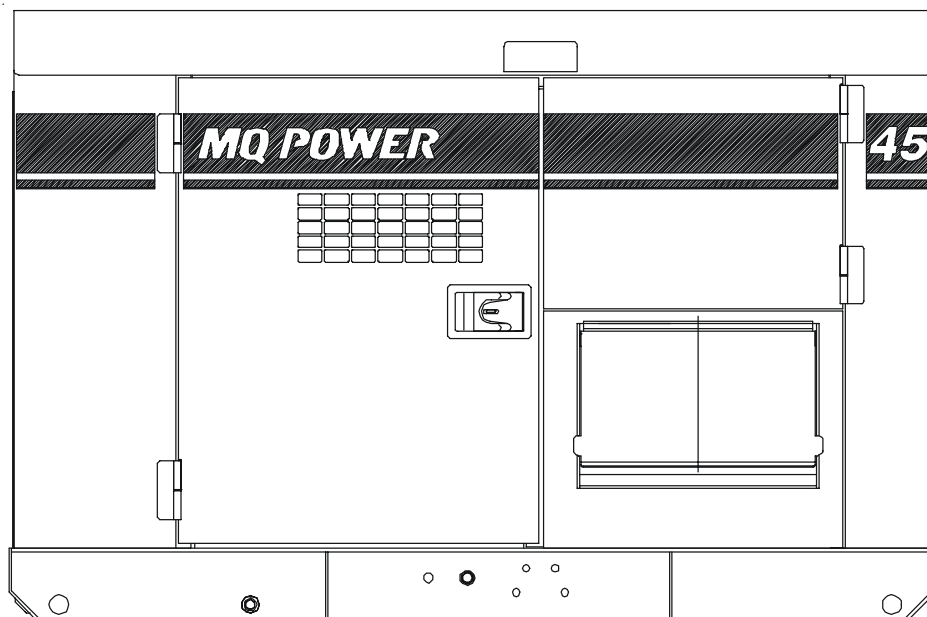
WhisperWatt Generator

WhisperWatt™ 45

Prime Rating: 36 kW (45 kVA)

Standby Rating: 37.8 kW (47.3 kVA)

60 Hertz



WhisperWatt™ Standard Features

- **Heavy duty, 4-cycle, diesel engine** provides maximum reliability.
- **Brushless alternator** reduces service and maintenance requirements and meets temperature rise standards for Class F 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 operation at 65 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- **Internal fuel tank** with direct reading fuel gauges are standard.
- **Seven-stage powder coat paint** provides durability and weather protection.
- **EPA-MOH emissions certified** - Tier 2 emissions compliant.
- **Complete engine analog instrumentation** includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, preheat indicator, emergency shutdown monitors, and keyed start 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 engine oil pressure and water temperature. 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. All are NEMA standard.
- **Simultaneous single and three phase power.**
- **Voltage selector switch** allows easy to change voltages as your applications require.
- **Fuel / water separator** removes condensation from fuel for extended engine life. Panel mounted alarm light included.



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Specifications

Alternator

Design	Revolving field, self-ventilated drip-proof, single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	37.8 KW (47.3 KVA)
Prime Output	36 KW (45 KVA)
Generator RPM	1800
Voltage — 3Ø	208, 220, 240, 416, 440, 480V Switchable
Voltage — 1Ø	120, 127, 139, 240, 254, 277V Switchable
Armature Connection	Star with neutral / Zig Zag
Voltage Regulation (No load to full load)	±1.0%
Power Factor	0.8
Frequency	60 Hz
Frequency Regulation: No Load to Full Load	3-5% under varying loads from no load to 100% rated Load
Frequency Regulation: Steady State	±0.5% of mean value for constant loads from no load to full load
Insulation	Class F
Sound Level dB(A) Full load at 23 feet	65

Engine

Make / Model	Isuzu / BB-4JG1T
Emissions	EPA Tier 2 Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged
Displacement	186.7 in ³ (3059 cc)
No. cylinders	4
Bore x Stroke (mm)	95.4 x 107
Gross Engine Power Output	64.8 hp (48.3 kW)
BMEP	134 psi (924 kPa)
Piston Speed	1264 ft./min. (6.42 m/s)
Compression Ratio	18 : 1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil Capacity	2.64 gallons (10.0 liters)
Battery	12V 72Ah x 1

Fuel

Maximum Fuel Flow (per hour)	11.9 gallons (45.2 liters)	
Maximum Inlet Restriction (Hg)	2.39 in. (60.8 mm)	
Fuel Tank Capacity	26.4 gallons (100.0 liters)	
Fuel Consumption	gph	lph
At full load	2.98	11.30
At 3/4 load	2.25	8.52
At 1/2 load	1.65	6.24
At 1/4 load	1.09	4.12

Cooling

Fan Load	0.94 HP (0.7 KW)
Coolant Capacity (with radiator)	2.88 gallons (10.9 liters)
Coolant Flow Rate (per minute)	21.1 gallons (80.0 liters)
Heat Rejection to Coolant (per minute)	1668 Btu (1.76 MJ)
Heat Rejection to Room (per minute)	246.4 Btu (0.26 MJ)
Maximum Coolant Friction Head	6.4 psi (44.1 kPa)
Maximum Coolant Static Head	6.56 feet (2.0 meters)
Ambient Temperature Rating	104 °F (40 °C)

Air

Combustion Air	82.6 cfm (2.34 m ³ /min)
Maximum Air Cleaner Restriction	24.9 in. H ₂ O (6.2 kPa)
Alternator Cooling Air	565.0 cfm (16.0 m ³ /min)
Radiator Cooling Air	2330 cfm (66.0 m ³ /min)
Minimum Air Opening to Room	4.09 sq.ft (0.38 sq.m)
Minimum Discharge Opening	1.63 sq.ft (0.15 sq.m)

Exhaust

Gas Flow (full load)	175.0 cfm (4.97 m ³ /min)
Gas Temperature	860 °F (460 °C)
Maximum Back Pressure	53.5 in. H ₂ O (13.3 kPa)

Amperage

Rated Voltage	Maximum Amps
1Ø 120 Volt	100 amps (4 wire)
1Ø 240 Volt	50 amps (4 wire)
3Ø 240 Volt	108 amps
3Ø 480 Volt	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 occurs first).

Generator

12 months from date of purchase or 1000 hours (whichever occurs first).

*Refer to the express written, one-year limited warranty sheet for additional information.

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.
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
- **Ultra-Silent at 23 feet**
- ⑥0 — Air conditioner at 20 feet
- ⑤0 — Normal conversation

65.0
DECIBELS

Optional Generator Features

- ☐ **Electronic Governor Control (Crystal Sync)** — maintains frequency to within $\pm 0.25\%$ from no load to full load.
- ☐ **Battery Charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- ☐ **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.
- ☐ **Jacket Water Heater** — for easy starting in cold weather climates.
- ☐ **Spring Isolators** — provides extra vibration protection for standby applications.
- ☐ **Trailer Mounted Package** — highway legal trailer with electric or hydraulic brakes with tandem axle configuration.

Optional Control Features

- ☐ **Emergency Stop Switch.**
- ☐ **Audible Alarm** — alerts operator of abnormal conditions.
- ☐ **Automatic Start / Stop Control** — automatically starts the generator set during a commercial power failure when used in conjunction with a transfer switch.

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.

Optional Distribution Devices

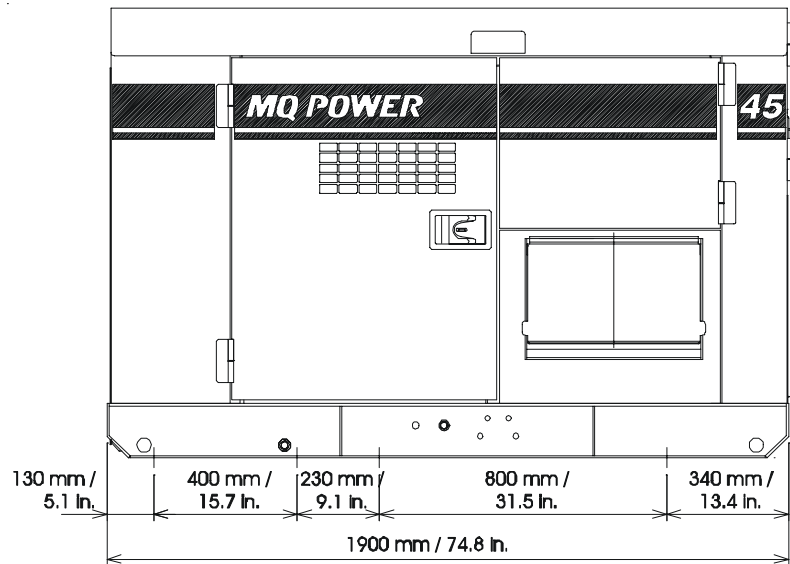
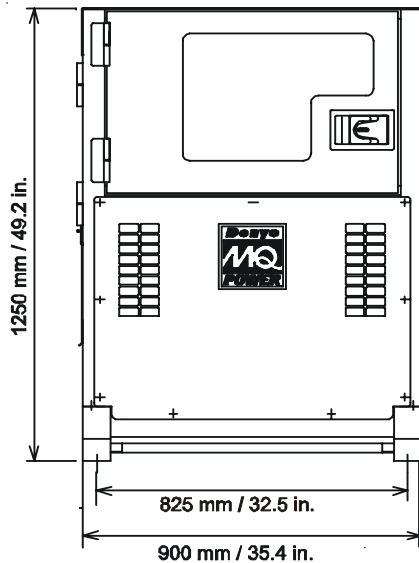
- ☐ **Cam-Lock connectors.**
- ☐ **Pin & Sleeve Connectors.**
- ☐ **AC Output Cable.**



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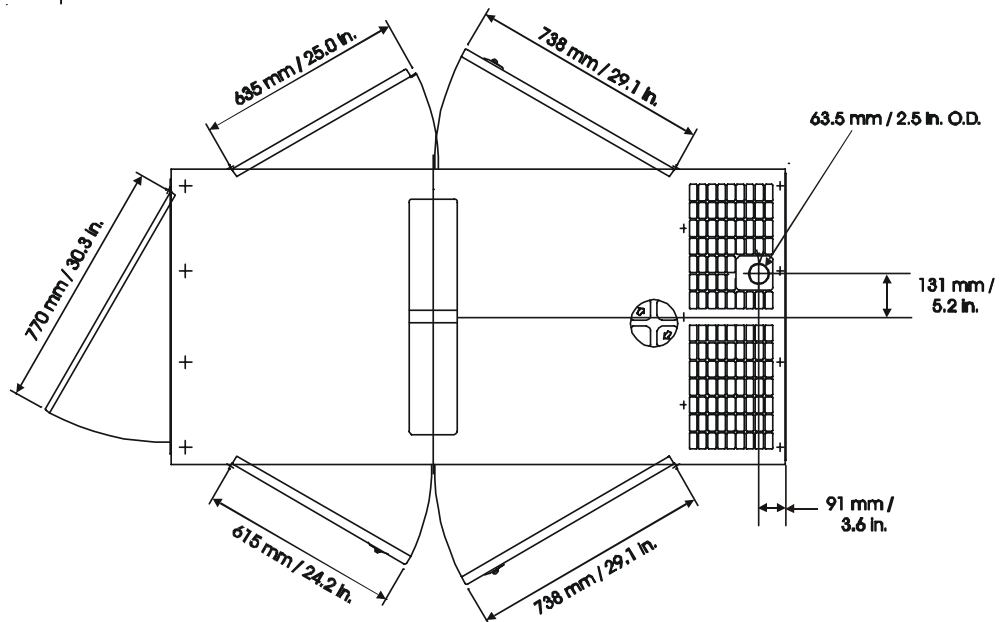
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Dimensions



Weight

Dry Weight	2204.6 lbs. (1000.0 kg)
Wet Weight	2434.5 lbs. (1104.3 kg)



Units manufacturing by Denyo Manufacturing Corporation

Your MQ Power dealer is:



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FAX: 310-632-2656
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WEBSITE: www.mqpower.com