



# DCA100SSV

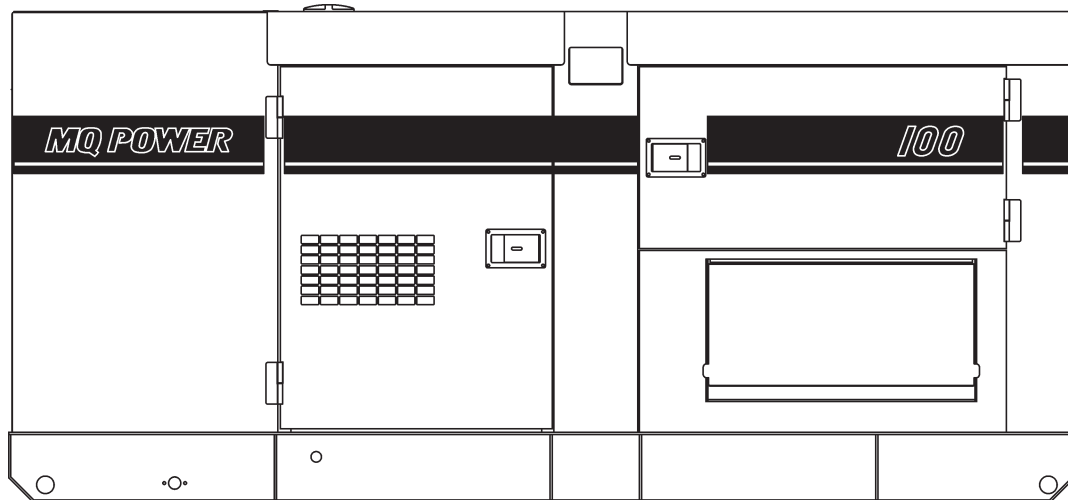
## WhisperWatt™ Generator

### WhisperWatt™ 100

Prime Rating: 80 kW (100 kVA)

Standby Rating: 88 kW (110 kVA)

60 Hertz



#### Standard Features

- **Heavy duty, 4-cycle, direct injection, turbocharged, air to air intercooled 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.
- **Electronic governor system** maintains frequency to  $\pm 0.25\%$ .
- **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 70 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- **Internal fuel tank** with direct reading fuel gauges are standard.
- **Fuel/water separator** removes condensation from fuel for extended engine life.
- **Seven-stage powder coat paint** provides durability and weather protection.
- **Complete engine analog instrumentation** includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, manual engine speed control, and emergency shutdown monitors.
- **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 overcrank. Warning lights indicate abnormal conditions.
- **Auto start/stop control** allows generator to start automatically in the event of a commercial power failure.
- **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.
- **EPA emissions certified** - Tier 2 emissions compliant.



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## WhisperWatt™ Generator

### Specifications

Generator Specifications	
Design	Revolving field, Self-ventilated Drip-proof, Single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	88 KW (110 KVA)
Prime Output	80 KW (100 KVA)
Generator RPM	1800
Voltage — 3Ø	208, 220, 240, 415, 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)	±0.5%
Power Factor	0.8
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 F
Sound Level dB(A) Full load at 23 feet	70

Engine Specifications	
Make / Model	Volvo / TAD520GE
Emissions	EPA Tier 2 Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged, air to air intercooled
Displacement	4760 cc
No. cylinders	4
Bore x Stroke (mm)	108 x 130
Gross Engine Power Output	147 bhp (110 kW)
BMEP	218 psi (1503 kPa)
Piston Speed	1536 ft./min. (7.80 m/s)
Compression Ratio	17.5 : 1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil capacity gallons (liters)	3.4 (13)
Battery	12V 128Ah x 1

Fuel System	
Maximum Fuel Flow (per hour)	118.9 gallons (450 liters)
Maximum Inlet Restriction (Hg)	4.3 in. (110 mm)
Fuel Tank Capacity	63 gallons (240 liters)
<b>Fuel Consumption</b>	
At full load gph (lph)	6.0 (22.8)
At 3/4 load gph (lph)	4.8 (18.1)
At 1/2 load gph (lph)	3.4 (13.0)
At 1/4 load gph (lph)	2.4 (8.9)

Cooling System	
Fan Load	9.8 hp (7.3 kW)
Coolant Capacity (with radiator)	5.2 gallons (19.7 liters)
Coolant Flow Rate (per minute)	54 gallons (205 liters)
Heat Rejection to Coolant (per minute)	3230 Btu (3.4 MJ)
Heat Radiated to Room (per minute)	751 Btu (0.79 MJ)
Maximum Coolant Friction Head	5.1 psi (35 kPa)
Maximum Coolant Static Head	33.5 feet (10.2 meters)
Ambient Temperature Rating	95°F (35°C)

Air	
Combustion Air	275 cfm (7.3 m³/min)
Maximum Air Cleaner Restriction	12 in. H <sub>2</sub> O (3 kPa)
Alternator Cooling Air	911 cfm (25.8 m³/min)
Radiator Cooling Air	5111 cfm (145 m³/min)

Exhaust System	
Gas Flow (full load)	699 cfm (19.8 m³/min)
Gas Temperature	838°F (448°C)
Maximum Back Pressure	28 in. H <sub>2</sub> O (7 kPa)

Amperage	
Rated Voltage	Maximum Amps
1Ø 120 Volt	222.2 Amps (4 wire)
1Ø 240 Volt	111.1 Amps (4 wire)
3Ø 240 Volt	241 Amps
3Ø 480 Volt	120 Amps
Main Line Circuit Breaker Rating	250 Amps
Over Current Relay Trip Set Point	120 Amps

### Warranty\*

#### Volvo Engine

24 months from date of purchase and unlimited hours.

#### 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.

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 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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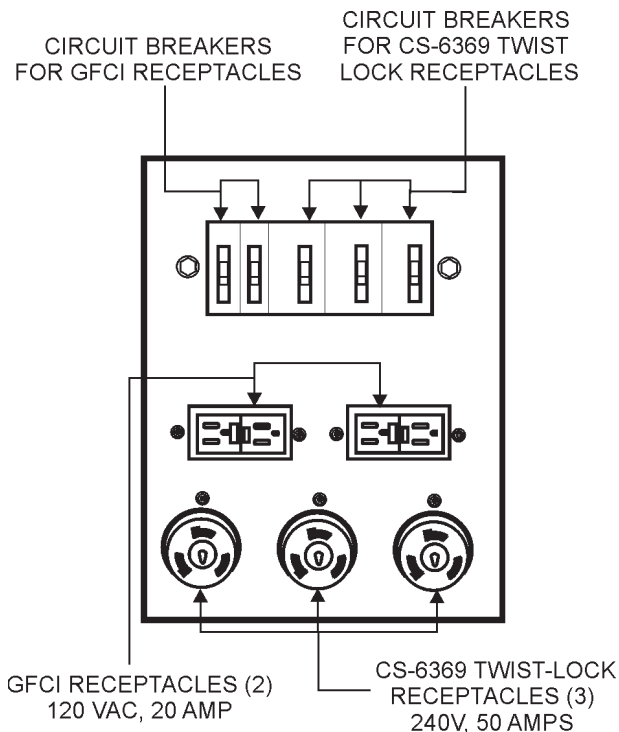
## MQ POWER DECIBEL LEVELS

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
- 70 — **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 isolaters** — provides extra vibration protection for standby applications.
- Trailer mounted package** — highway legal trailer with electronic or surge brakes with single or double axle configuration. Extra capacity fuel tanks are also available.

## Optional Control Features

- Low coolant level shutdown** — provides protection from critically low coolant levels. Includes control panel warning light.
- Emergency stop switch.**
- Audible alarm** — alerts operator of abnormal conditions.

## 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 Output Connections

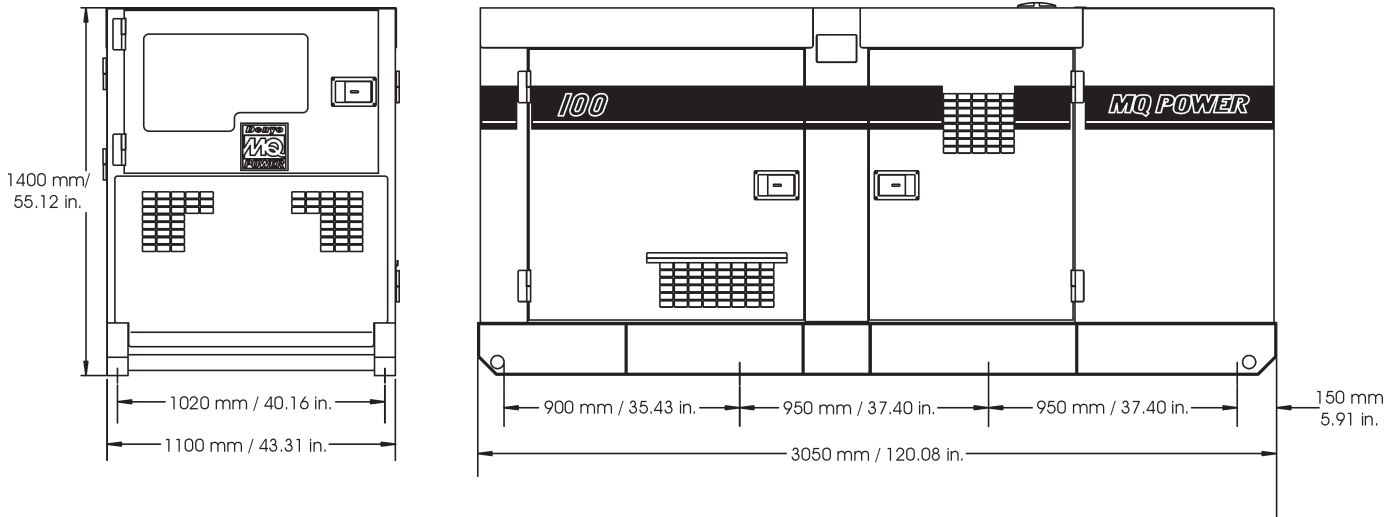
- Cam-Loks** — provides quick disconnect alternative to bolt-on connectors.
- Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- Output Cable** — available in any custom length and size configuration.



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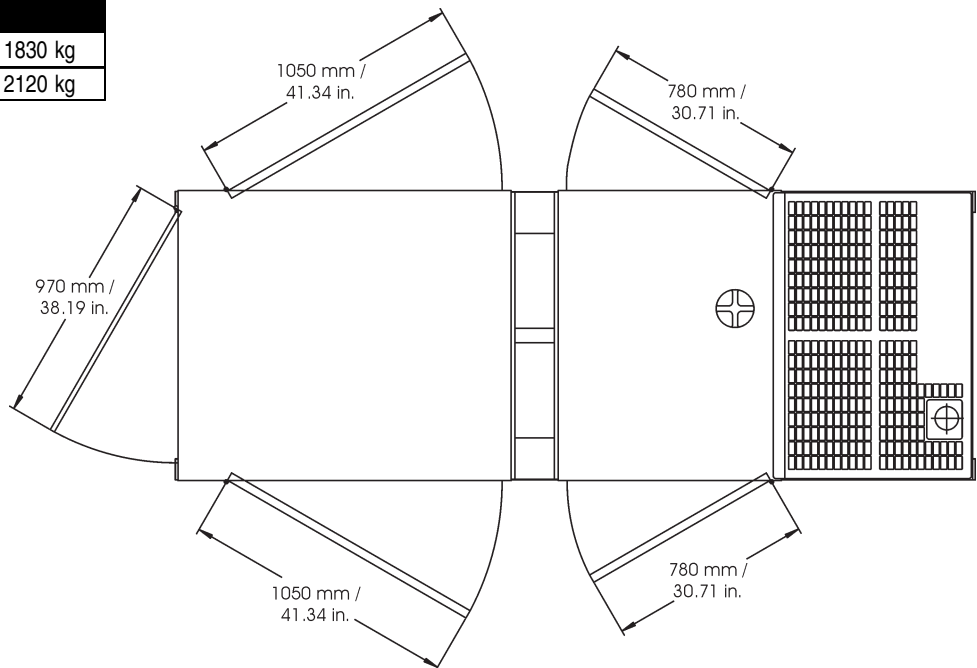
## WhisperWatt™ Generator

### Dimensions



### Weight

Dry Weight	4035 lbs. / 1830 kg
Wet Weight	4675 lbs. / 2120 kg



Manufactured by Denyo Co.

Your MQ Power dealer is:



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WEBSITE: [www.mqpower.com](http://www.mqpower.com)