



DCA180SSV

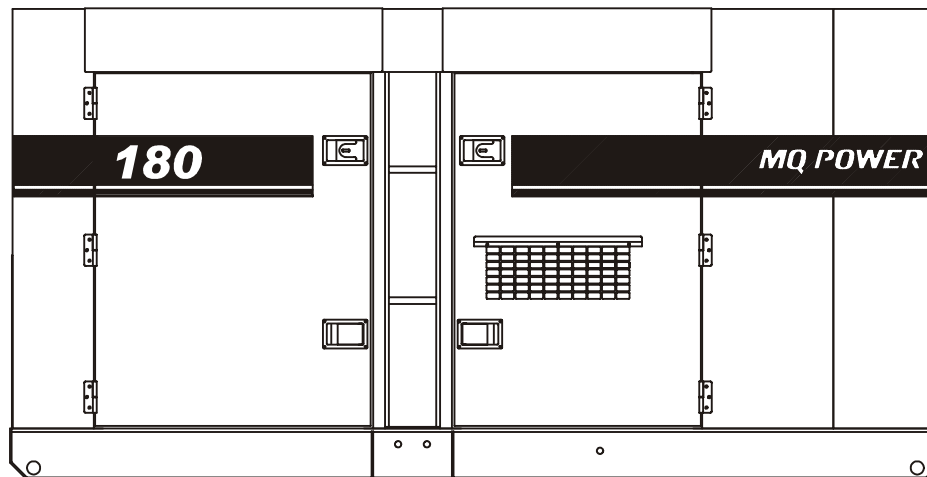
WhisperWatt Generator

WhisperWatt 180

Prime Rating: 144 kW (180 kVA)

Standby Rating: 158 kW (198 kVA)

60 Hertz



WhisperWatt 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.
- **EPA-MOH emissions certified.**
- **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.
- **Low coolant level shutdown system** provides protection from critically low coolant levels. Includes control panel warning light.
- **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.



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Specifications

Generator	
Design	Revolving field, Self-ventilated Drip-proof, Single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	158 KW (198 KVA)
Prime Output	144 KW (180 KVA)
Generator RPM	1800
Voltage - 3 phase	208, 220, 240, 415, 440, 480V Reconnectable
Voltage - single phase	120, 127, 139, 240, 254, 277V Adjustable
Armature Connection	Star with neutral
Voltage Regulation (No load to full load)	±1.0%
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	
Make / Model	Volvo / TAD722GE
Starting System	Electric
Design	4-cycle Water cooled Direct injection Turbocharged Air to Air Intercooled
Displacement	436.3 in ³ (7150 cc)
No. cylinders	6
Bore x Stroke (mm)	108 x 130
Gross Engine Power Output	296 bhp (218 kW)
BMEP	276 psi (1900 kPa)
Piston Speed	1542 ft./min. (7.80 m/s)
Compression Ratio	18.1 : 1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil capacity gallons (liters)	9.0 gal (34)
Battery	12V 150Ah x 2 (24V system)

Fuel	
Maximum Fuel Flow (per hour)	119 gallons (450 liters)
Maximum Inlet Restriction (Hg)	4.3 in. (110 mm)
Fuel Tank Capacity	79 gallons (300 liters)
Fuel Consumption	
At full load gph (lph)	11.2 (42.2)
At 3/4 load gph (lph)	8.5 (32.0)
At 1/2 load gph (lph)	5.9 (22.4)
At 1/4 load gph (lph)	3.7 (14.0)

Cooling	
Fan Load	10 hp (7.4 kW)
Coolant Capacity (with radiator)	7.2 gallons (27.3 liters)
Coolant Flow Rate (per minute)	57.1 gallons (216 liters)
Heat Rejection to Coolant (per minute)	5835 Btu (6.2 MJ)
Heat Radiated to Room (per minute)	863 Btu (0.91 MJ)
Maximum Coolant Friction Head	5.1 psi (35 kPa)
Maximum Coolant Static Head	33.5 feet (10.2 meters)
Ambient Temperature Rating	105°F (40°C)

Air	
Combustion Air	562 cfm (15.9 m ³ /min)
Maximum Air Cleaner Restriction	14.1 in. H ₂ O (3.5 kPa)
Alternator Cooling Air	1459 cfm (41.3 m ³ /min)
Radiator Cooling Air	6426 cfm (182 m ³ /min)
Minimum Air Opening to Room	11.8 sq.ft. (1.1 sq.m)
Minimum Discharge Opening	6.03 sq.ft. (0.56 sq.m)

Exhaust	
Gas Flow (full load)	1451 cfm (41.3 m ³ /min)
Gas Temperature	921°F (494°C)
Maximum Back Pressure	28 in. H ₂ O (7 kPa)

Maximum Amps	
Rated Voltage	Maximum Amps
1Ø 120 Volt	400.0 amp (4 wire)
1Ø 240 Volt	200.0 amp (4 wire)
3Ø 240 Volt	433 amp
3Ø 480 Volt	216 amp

Warranty*

Volvo Engine

24 months from date of purchase and unlimited hours.

*Refer to the express written, Engine warranty sheet for additional coverage information.

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 — **WhisperWatt at 23 feet**
- 60 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation

70.0
DECIBELS

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 tandem axle configuration. Extra capacity fuel tanks are also available.

Optional Control Features

- ☐ **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

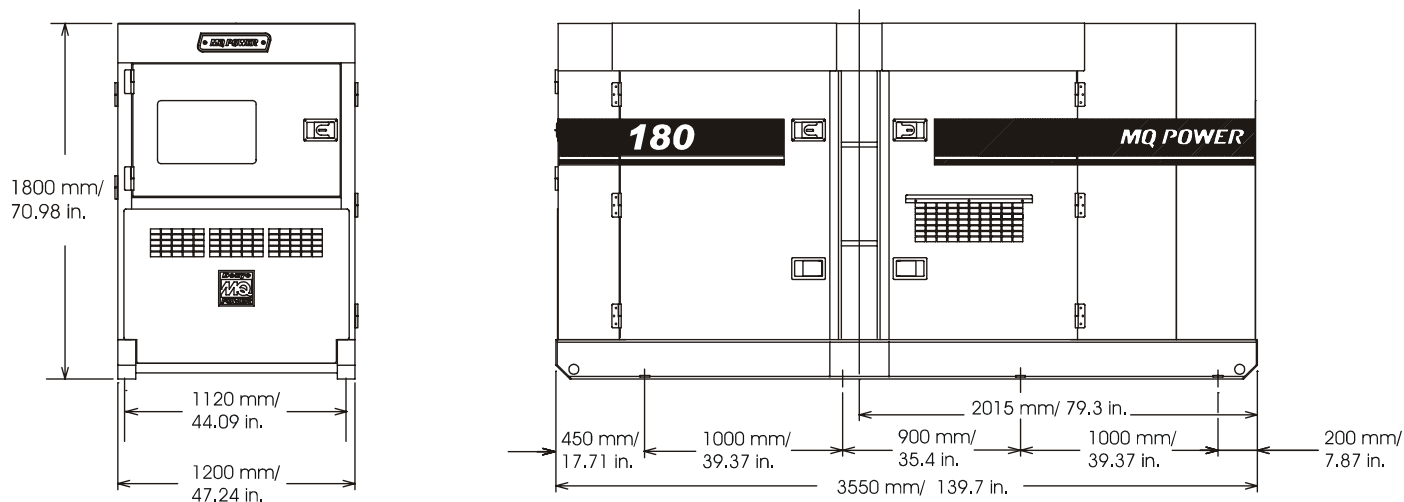
- ☐ **Cam-Loks** — provides quick disconnect alternative to bolt-on connectors.
- ☐ **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- ☐ **Output Cable** — available in any custom length and size configuration.



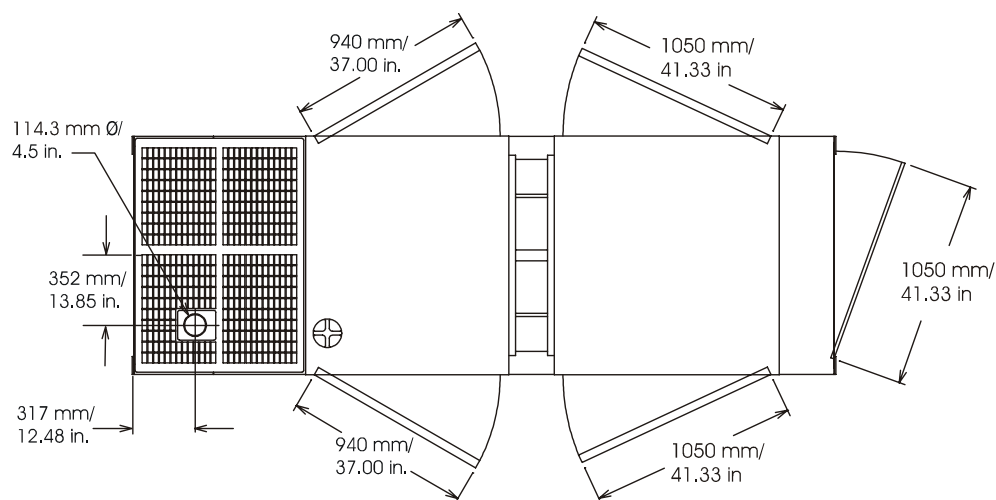
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Dimensions



Weight	
Appx. Dry Weight	6515 lbs. / 2955 kg
Appx. Wet Weight	7255 lbs. / 3290 kg



Manufactured by Denyo Co.

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