



DCA600SSV4F3PB

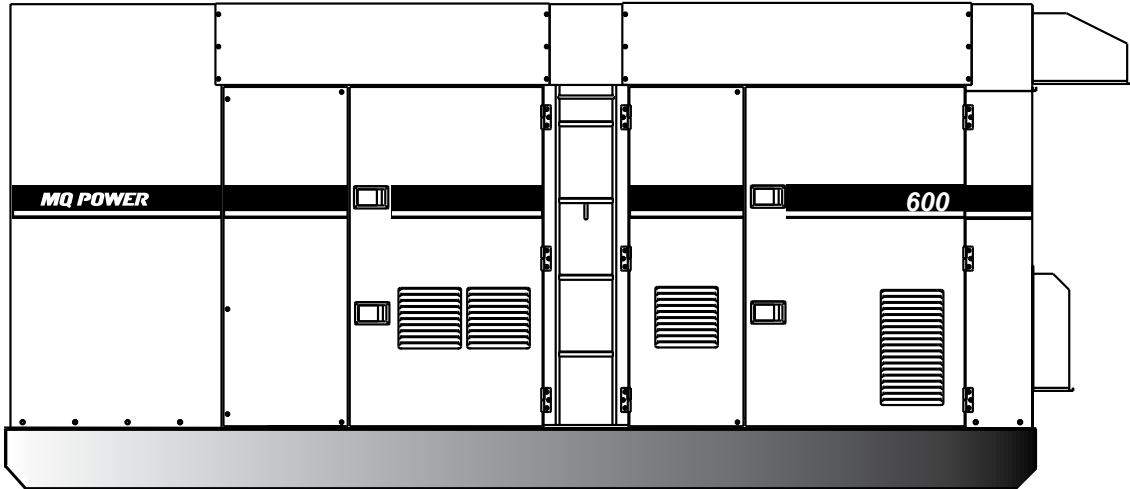
MQ POWER Generator

WhisperWatt™

Prime Rating — 480 kW (600 kVA)

Standby Rating — 528 kW (660 kVA)

3-Phase, 60 Hertz, 0.8 PF



STANDARD FEATURES

- Heavy duty, 4-cycle, electronic direct injection, turbocharged, charged air cooler, diesel engine provides maximum reliability.
- EPA emissions certified — Tier 4 Final emissions compliant.
- Microprocessor engine control system maintains frequency to $\pm 0.25\%$.
- Full load acceptance of standby nameplate rating in a single step.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Sound attenuated, weather resistant, steel housing provides operation at 71 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- E-coat with polyurethane enamel finish coat.
- Internal fuel tank with direct reading fuel gauges are standard.
- 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.
- Fully covered power panel. 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.
- Basler DGC2020HD microprocessor-based digital generator controller with integrated genset-to-genset (isolated bus) paralleling.
 - Onboard Synchronization and kW/kVAR load sharing. Dual Ethernet ports for Inter-Genset communication.
 - High visibility backlit LCD display.
 - Operational temperature range of -40° to 70° C (-40° to 158° F).
 - Remote 2-wire start/stop control.
 - Metered power output parameters include:
 - Voltage
 - Amperage
 - Kilowatts
 - Kilovolt amps
 - Power Factor
 - Hertz
 - Modbus interface for gauge panel and expansion options.
 - Engine monitoring data over J1939. Modbus over RS485 for SCADA Interface.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, engine load, fuel level and DEF level.
- Analog generator instrumentation including AC ammeter, AC voltmeter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch, and voltage regulator adjustment potentiometer.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- Emergency stop switch — When manually activated, shuts down generator in the event of an emergency.



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SPECIFICATIONS

Generator Specifications

Design	Revolving field, self-ventilated Drip-proof, single bearing
No. of Poles	4
Excitation	Brushless with AVR
Standby Output	528 KW (660 KVA)
Prime Output	480 KW (600 KVA)
Generator RPM	1800
Voltage 3Ø (L-L)	208, 220, 240, 416, 440, 480 V (Reconnectable)
Voltage 1Ø (L-L-N)	120, 127, 139, 240, 254, 277 V (Adjustable)
Armature Connection	Star with Neutral
Voltage Regulation (No load to full load)	±0.5%
Power Factor	0.8
Frequency	60 Hz
Winding Pitch	2/3
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	71

Engine Specifications

Make / Model	Volvo / TWD1672GE
Emissions	EPA Tier 4 Final Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged, SCR.
Displacement	983.70 in ³ (16.1 liters)
No. cylinders	6
Bore x Stroke	5.66 x 6.49 in. (144 x 165 mm)
Gross Engine Power Output	825 hp (615 kW)
BMEP	337 psi (2324 kPa)
Piston Speed	1949 ft/min (9.9 m/s)
Compression Ratio	16.8 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	12.7 gallons (48 liters)
Battery	12V 200Ah x 2 (24V System)

Fuel System

Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Maximum Fuel Flow (per hour)	55.5 gallons (210 liters)	
Maximum Inlet Restriction (Hg)	8.9 in (225 mm)	
Fuel Tank Capacity	52.8 gallons (200 liters)	
Fuel Consumption	gph	lph
At full load	31.7	120.0
At 3/4 load	24.4	92.4
At 1/2 load	17.9	68.0
At 1/4 load	11.3	42.7
DEF Tank Capacity	84.5 gallons (320 liters)	

* - Use ultra-low sulfur diesel fuel.

Cooling System

Fan Load	40.2 hp (30 kW)
Coolant Capacity (with radiator)	26.1 gallons (99 liters)
Maximum Coolant Static Head	33.5 ft. (10.2 m)
Ambient Temperature Rating	104°F (40°C)

Air

Combustion Air	1626 cfm (46.06 m ³ /min)
Maximum Air Cleaner Restriction	20 in. H ₂ O (5 kPa)
Alternator Cooling Air	3023 cfm (86 m ³ /min)
Radiator Cooling Air	27542 cfm (780 m ³ /min)

Exhaust System

Gas Flow (full load)	4025 cfm (114 m ³ /min)
Gas Temperature	793°F (423°C)
Maximum Back Pressure	76 in. H ₂ O (19 kPa)

Amperage

Rated Voltage	Maximum Amps
1Ø 120 Volt	1333.3 Amps (4 wire)
1Ø 240 Volt	666.7 Amps (4 wire)
3Ø 208 Volt	1443.4 Amps
3Ø 240 Volt	1443.4 Amps
3Ø 480 Volt	721.7 Amps
Main Line Circuit Breaker Rating	1600 Amps
Over Current Relay Trip Set Point	1443.4 Amps (240V) 720 Amps (480V)

WARRANTY*

Volvo Engine

12 months from date of purchase with unlimited hours or 24 months and prior to the accumulation of 3000 hours (whichever occurs 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

Specifications sheet is subject to change and is not intended for use in installation design.



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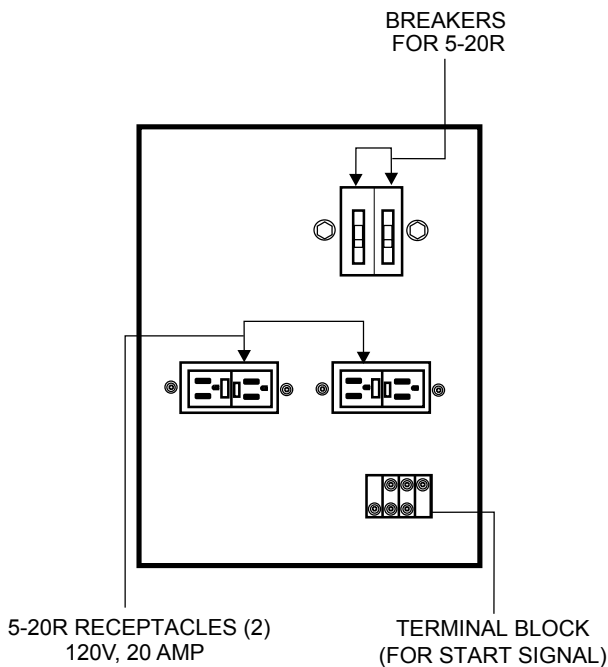
MQ POWER DECIBEL LEVELS

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



GENERATOR OUTPUT PANEL



OPTIONAL GENERATOR FEATURES

- **PowerBalance™** — designed to assist generators when operating under low temperature and/or low load conditions to insure peak performance (available only in 480V).
- **Battery charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Crankcase Vent Blanket with Heating Element** — insures proper crankcase ventilation in freezing conditions. (Unit comes standard with a non-heated crankcase blanket)
- **Trailer mounted package** — meets National Highway Traffic Safety Administration (NHTSA) regulations.
 - Bumper pull trailer is equipped with electric brakes

OPTIONAL CONTROL FEATURES

- **Audible alarm** alerts operator of abnormal conditions.

OPTIONAL FUEL CELL FEATURES

- **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-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.

