



DCA1100SSC

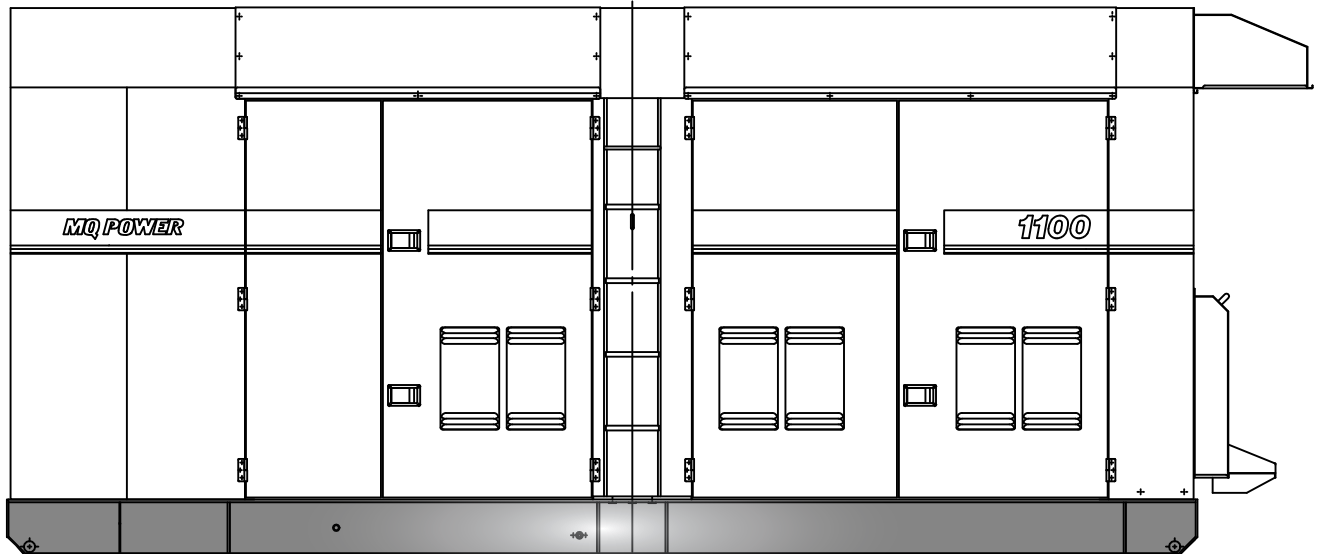
MQ POWER Whisperwatt™ Series

WhisperWatt™ 1100

Prime Rating — 880 kW (1100 kVA)

Standby Rating — 968 kW (1210 kVA)

60 Hertz



STANDARD FEATURES

- Heavy duty, turbocharged, aftercooled, direct injection diesel engine provides maximum reliability.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class H insulation systems.
- 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 74 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- Internal fuel tank with direct reading fuel gauges are standard.
- E-Coat primer with polyurethane enamel finish coat.
- Low coolant level shutdown system - provides protection from critically low coolant levels. Includes control panel warning light.
- Complete engine analog instrumentation includes DC voltmeter, oil pressure gauge, water temp. gauge, tachometer/hour meter, preheat indicator, manual engine speed control, emergency shutdown monitors, and emergency stop button.
- 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 (480V).
- Emergency stop switch.
- Battery switch.
- EPA emissions certified - Tier 2 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	968 KW (1210 KVA)
Prime Output	880 KW (1100 KVA)
Generator RPM	1800
Voltage — 3Ø	480V Dedicated
Armature Connection	Star with neutral
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 H
Sound Level dB(A) Full load at 23 feet	74

Engine Specifications

Make / Model	Cummins / QST30-G5
Emissions	EPA Tier 2 Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged, charged air cooled.
Displacement	1860 in ³ (30,480 cc)
No. cylinders	12
Bore x Stroke	5.51 x 6.49 in. (140 x 165 mm)
Gross Engine Power Output	1490 hp (1112 kW)
BMEP	319 psi (2199 kPa)
Piston Speed	1949 ft/min (9.9 m/s)
Compression Ratio	14.7 : 1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	40.7 gallons (154 liters)
Battery	12V 200Ah x 4 (24V system)

Fuel System

Maximum Fuel Flow (per hour)	150 gallons (570 liters)	
Maximum Inlet Restriction (Hg)	4 in (101.6 mm)	
Fuel Tank Capacity	211 gallons (800 liters)	
Fuel Consumption	gph	lph
At full load	62.6	237
At 3/4 load	46.5	176
At 1/2 load	33.0	125
At 1/4 load	18.3	69.3

Cooling System

Fan Load	60.3 hp (45 kW)
Coolant Capacity (with radiator)	55.7 gallons (211 liters)
Coolant Flow Rate (per minute)	270 gallons (1020 liters)
Heat Rejection to Coolant (per minute)	19,925 Btu (21.0 MJ)
Maximum Coolant Friction Head	10.0 psi (69 kPa)
Maximum Coolant Static Head	46 ft. (14 m)
Ambient Temperature Rating	104°F (40°C)

Air

Combustion Air	3090 cfm (87.5 m ³ /min)
Maximum Air Cleaner Restriction	25 inH ₂ O (6.25 kPa)
Alternator Cooling Air	4156 cfm (118 m ³ /min)
Radiator Cooling Air	33902 cfm (960 m ³ /min)

Exhaust System

Gas Flow (full load)	7,375 cfm (209 m ³ /min)
Gas Temperature	845°F (455°C)
Maximum Back Pressure	27 inH ₂ O (6.8 kPa)

Amperage

Rated Voltage	Maximum Amps
3Ø 480 Volt	1323 Amps
Main Line Circuit Breaker Rating	1600 Amps

WARRANTY*

Cummins Engine

12 months from date of purchase.

Generator

12 months from date of purchase.

Trailer

12 months excluding normal wear items.

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

NOTICE

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



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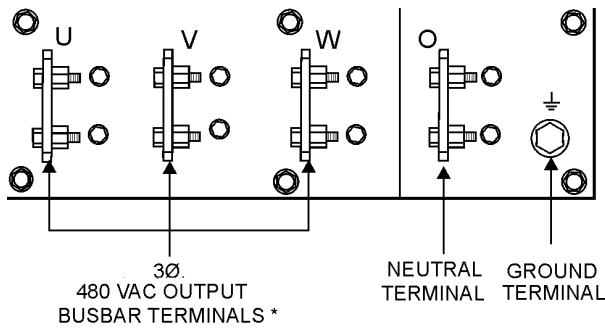
MQ POWER DECIBEL LEVELS

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.

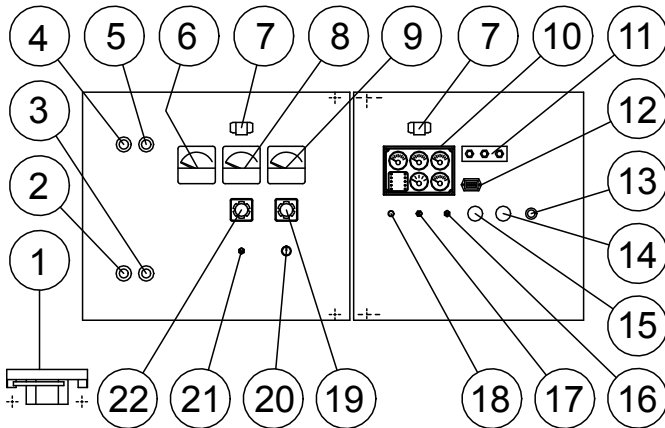
- 90 — Subway / truck traffic
- 80 — Average city traffic
- 74.0 — **WhisperWatt at 23 feet**
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation



GENERATOR OUTPUT PANEL



CONTROL 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 below 0°.
- **Special batteries** — long life batteries provide extra engine cranking power.
- **Trailer mounted package** — highway legal, drop deck, semi-trailer with air brakes.

OPTIONAL OUTPUT CONNECTIONS

- **Camlocks** — provide quick-disconnect alternative to bolt-on connectors.

OPTIONAL CONTROL FEATURES

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

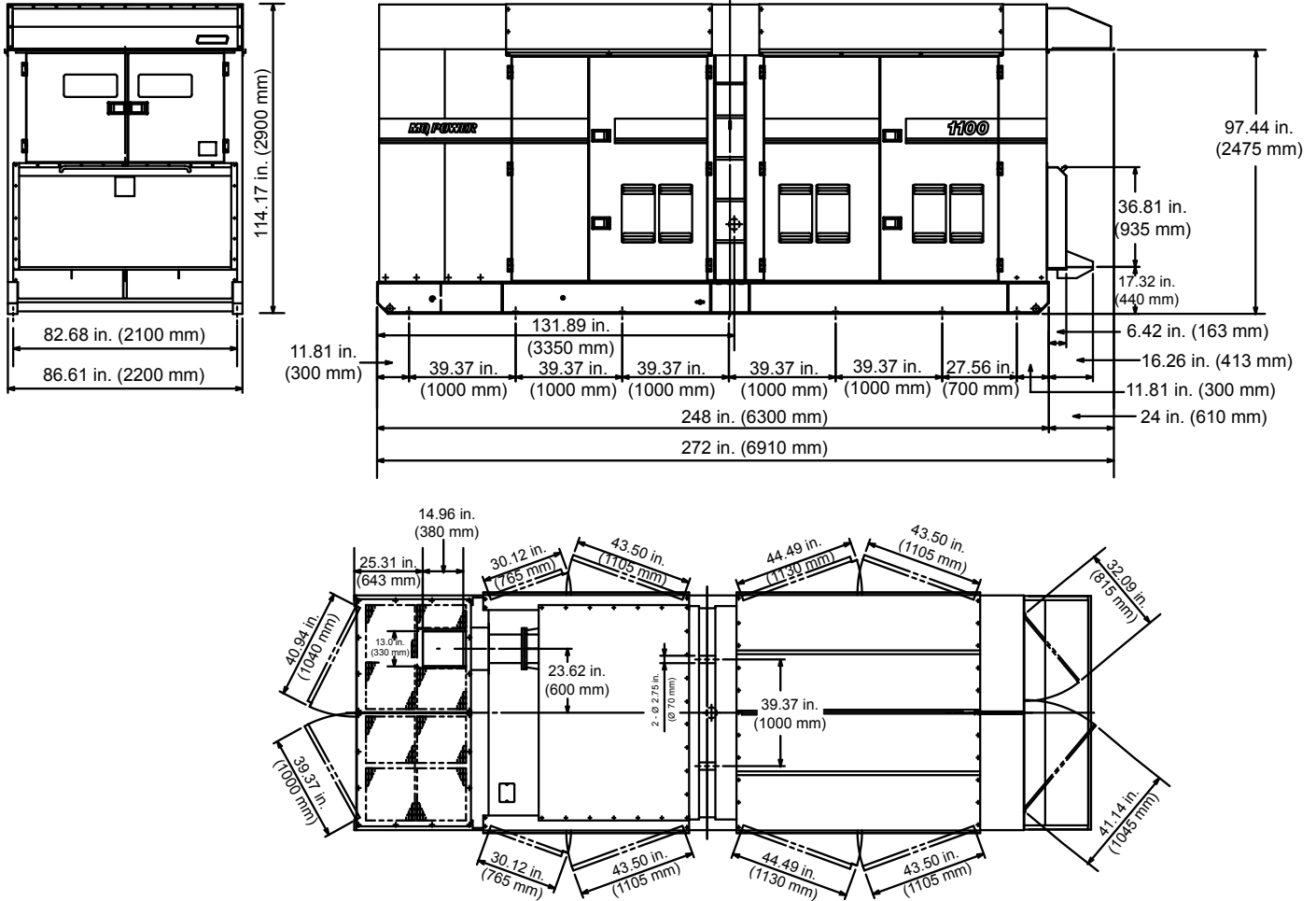
Control Panel			
Item	Description	Item	Description
1	Battery Switch	13	Emergency Stop Button
2	Circuit Breaker (OFF) Switch	14	Preheat Button
3	Circuit Breaker (ON) Switch	15	Preheat Lamp
4	Circuit Breaker (OFF) Lamp	16	Engine Speed Switch
5	Circuit Breaker (ON) Lamp	17	Auto Start/Stop Switch
6	Frequency Meter	18	Fuel Meter Check Button
7	Panel Light	19	Voltmeter Change-Over Switch
8	AC Ammeter	20	Voltage Regulator
9	AC Voltmeter	21	Panel Light Switch
10	Auto Start/Stop Controller (ECU-750)	22	Ammeter Change-Over Switch
11	Alarm Lamp		
12	Hour Meter		



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DIMENSIONS



Weight	
Dry Weight	28,880.5 lbs. (13,100 kg)
Wet Weight	31,305.6 lbs. (14,200 kg)
Max. Lifting Point Capacity	35,000 lbs. (15,873 kg)

Manufactured by Denyo Co.

Your MultiQuip dealer is:

