



DCA1100SSC

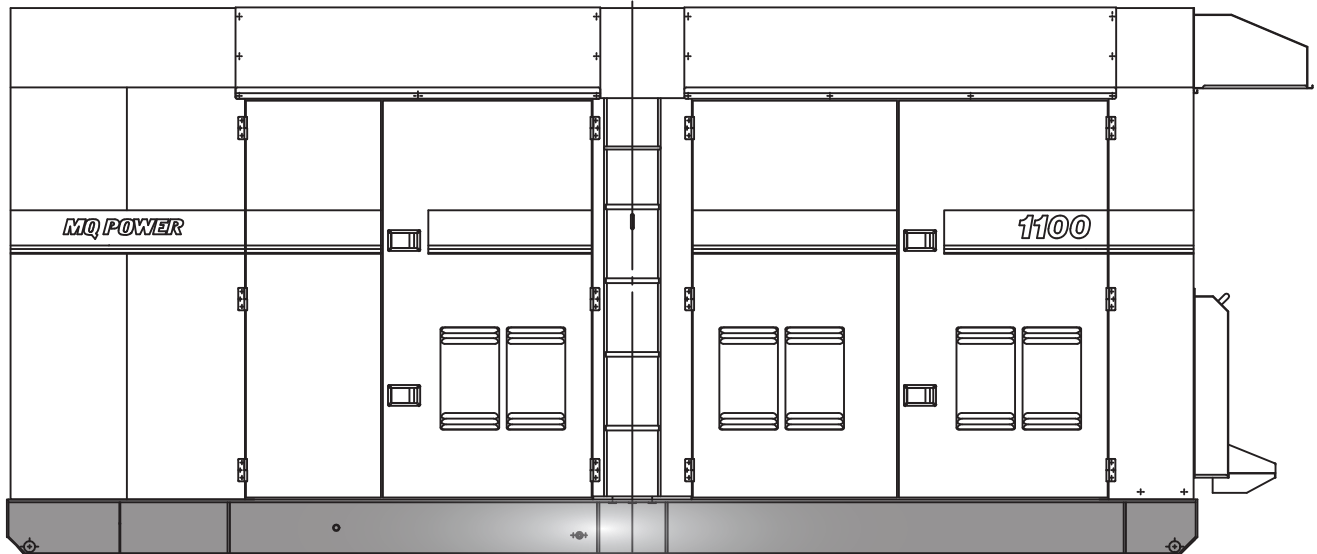
MQ POWER Whisperwatt™ Series

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.
- 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; 3-phase terminals (480V).
- Emergency stop switch.
- Battery switch.
- EPA emissions certified - Tier 2 emissions compliant.



DCA1100SSC

MQ POWER Whisperwatt™ Series

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.



DCA1100SSC

MQ POWER Whisperwatt™ Series

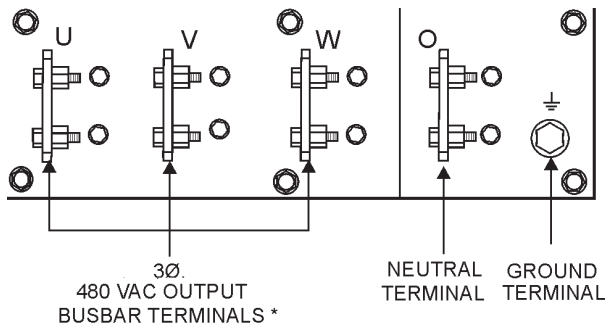
MQ POWER DECIBEL LEVELS

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.

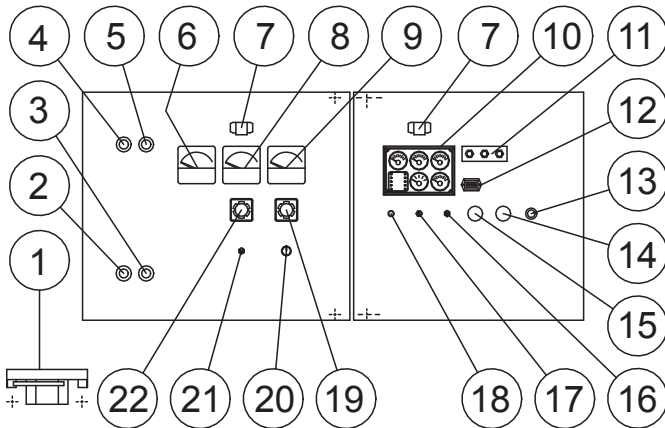
- 90 — Subway / truck traffic
- 80 — Average city traffic
- 74.0 — WhisperWatt at 23 feet
- 70 — Inside car at 60 mph
- 60 — Air conditioner at 20 feet
- 50 — Normal conversation



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.

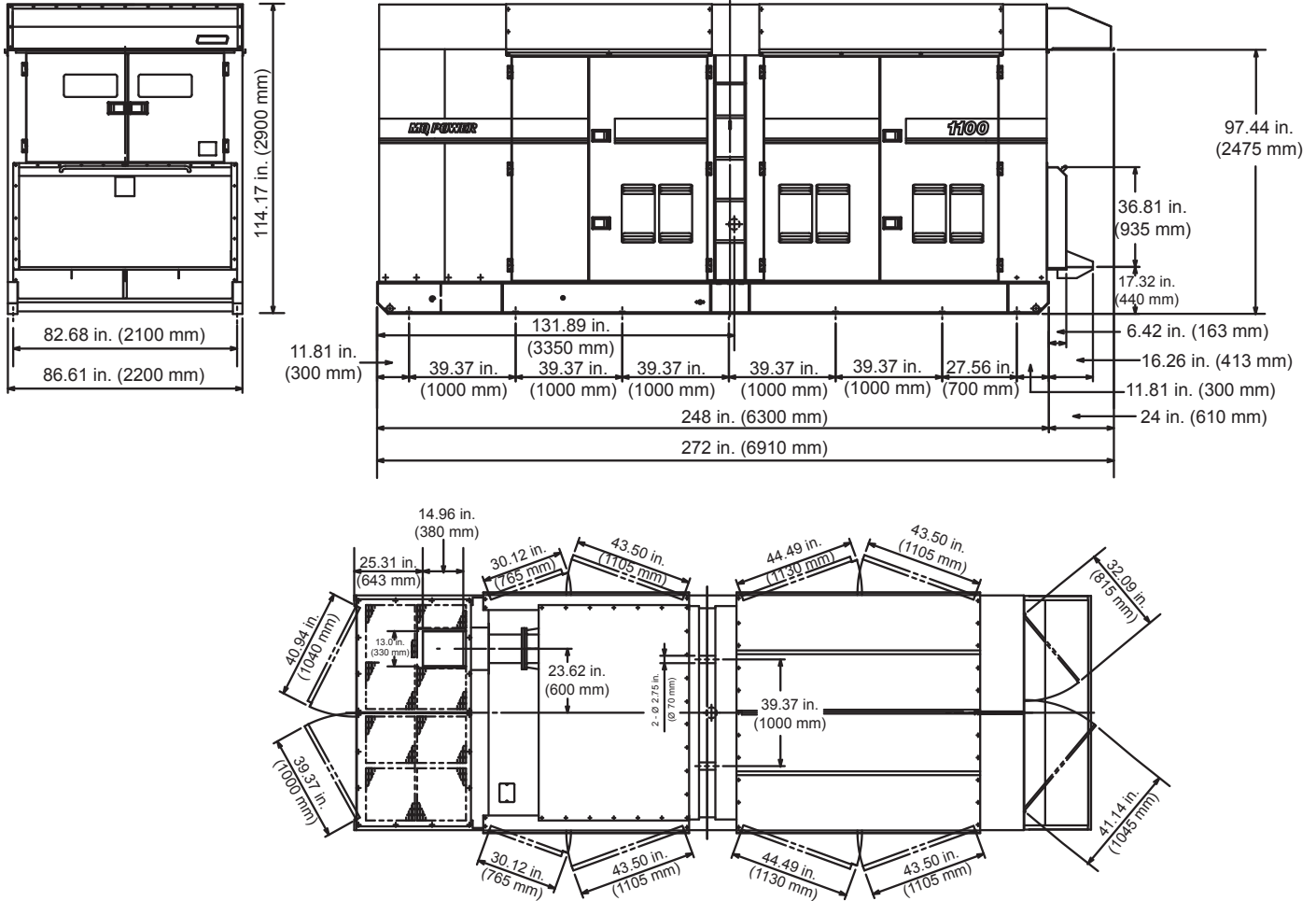
| Control Panel | | | |
|---------------|--------------------------------------|------|------------------------------|
| Item | Description | Item | Description |
| 1 | Battery Switch | 13 | Emergency Stop Button |
| 2 | Circuit Breaker (OFF) Switch | 14 | Preheat Button |
| 3 | Circuit Breaker (ON) 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 | | |



DCA1100SSC

MQ POWER Whisperwatt™ Series

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.

© COPYRIGHT 2016 MULTIQUIP INC.
DCA1100SSC Rev. #0 (09/28/16)



1741 East Colon Street, (zip 90744)
PO Box 1212
Wilmington, CA 90748-1212
Phone: 310 835-3161 • Fax: 310 518-3019
sales@assocpower.com • www.assocpower.com