



DCA220SSJU4F

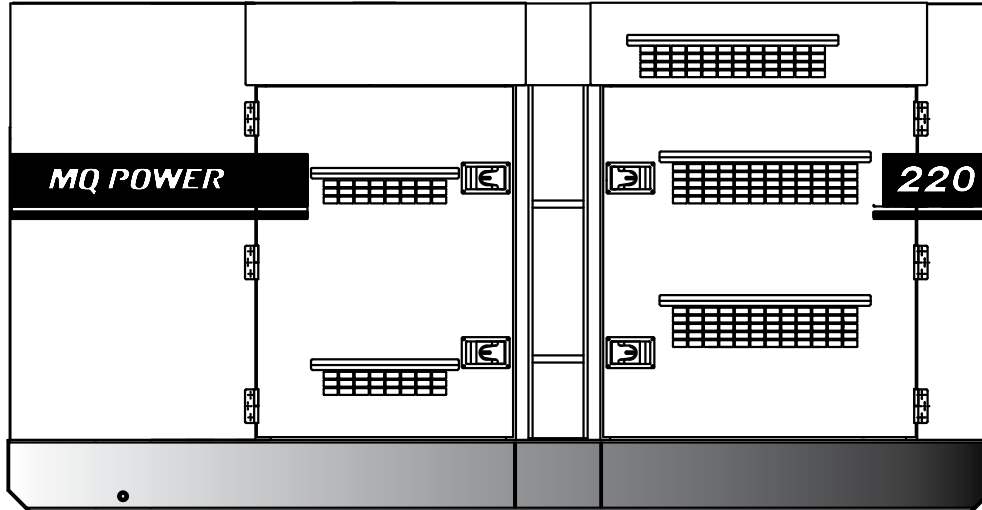
MQ POWER Whisperwatt™ Series

WhisperWatt™ 220

Prime Rating — 176 kW (220 kVA)

Standby Rating — 194 kW (242 kVA)

3-Phase, 60 Hertz, 0.8 PF



STANDARD FEATURES

- Heavy duty, 4-cycle, electronic direct injection, turbocharged, charged air cooler, variable speed fan, 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 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 and powder coat paint provides durability and weather protection.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, and fuel level.
- Analog generator instrumentation including AC ammeter, AC voltmeter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch, and voltage regulator adjustment potentiometer.
- ECU835 microprocessor-based digital generator controller.
 - Remote 2-wire start/stop control.
 - High visibility LCD display with heated screen and alphanumeric readout.
 - Operational temperature range of -40° to 85° C.
 - Modbus interface for gauge panel and expansion options.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low coolant, low DEF, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- 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.
- Fuel/water separator. Removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Emergency stop switch — when manually activated, shuts down generator in the event of an emergency.
- EPA emissions certified - Tier 4 Final emissions compliant.
 - Engine fitted with DOC, DPF and SCR.



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SPECIFICATIONS

| Generator Specifications | |
|--|---|
| Design | Revolving field, self-ventilated Drip-proof, single bearing |
| Armature Connection | Star with Neutral |
| Phase | 3 |
| Standby Output | 194 KW (242 KVA) |
| Prime Output | 176 KW (220 KVA) |
| 3Ø Voltage (L-L/L-N) Voltage Change-Over Bus Bars at 3Ø 240/139 | 208Y/120, 220Y/127, 240Y/139 |
| 3Ø Voltage (L-L/L-N) Voltage Change-Over Bus Bars at 3Ø 480/277 | 416Y/240, 440Y/254, 480Y/277 |
| 1Ø Voltage (L-L/L-N) Voltage Change-Over Bus Bars at 1Ø 240/120 | N/A |
| Power Factor | 0.8 |
| Voltage Regulation (No load to full load) | ±0.5% |
| Generator RPM | 1800 |
| Frequency | 60 Hz |
| No. of Poles | 4 |
| Excitation | Brushless with AVR |
| 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 | 74 |

| Engine Specifications | |
|---------------------------|---|
| Make / Model | John Deere / 6068HFG09 |
| Emissions | EPA Tier 4 Final Certified |
| Starting System | Electric |
| Design | 4-cycle, water cooled, direct injection, turbocharged, charged air cooled, EGR, DOC, DPF and SCR. |
| Displacement | 415 in ³ (6.8 liters) |
| No. cylinders | 6 |
| Bore x Stroke | 4.17 x 4.99 in. (106 x 127 mm) |
| Gross Engine Power Output | 322 hp (241 kW) |
| BMEP | 316 psi (2180 kPa) |
| Piston Speed | 1500 ft/min (7.62 m/s) |
| Compression Ratio | 16.7 : 1 |
| Engine Speed | 1800 rpm |
| Overspeed Limit | 2070 rpm |
| Oil Capacity | 8.18 gallons (31 liters) |
| Battery | 12V 150Ah x 1 |

| Fuel System | | |
|--------------------------------|---------------------------|------|
| Recommended Fuel | ASTM-D975-No.1 & No.2-D* | |
| Maximum Fuel Flow (per hour) | 44.3 gallons (168 liters) | |
| Maximum Inlet Restriction (Hg) | 8.9 in (225 mm) | |
| Fuel Tank Capacity | 69 gallons (260 liters) | |
| Fuel Consumption | gph | lph |
| At full load | 12.5 | 47.1 |
| At 3/4 load | 9.7 | 36.4 |
| At 1/2 load | 6.9 | 26.1 |
| At 1/4 load | 4.4 | 16.7 |
| DEF Tank Capacity | 14.5 gallons (55 liters) | |

* - Use ultra-low sulfur diesel fuel.

| Cooling System | |
|---|--------------------------|
| Fan Load | 19.4 hp (14.5 kW) |
| Coolant Capacity (with radiator) | 10.3 gallons (39 liters) |
| Coolant Flow Rate (per minute) | 111 gallons (420 liters) |
| Heat Rejection to Coolant (per minute) | 8,652 Btu (9.13 MJ) |
| Heat Rejection from Engine (per minute) | 882.8 Btu (0.93 MJ) |
| Maximum Coolant Friction Head | 7.3 psi (50 kPa) |
| Maximum Coolant Static Head | 78.7 ft. (24.1 m) |
| Ambient Temperature Rating | 104°F (40°C) |

| Air | |
|---------------------------------|--------------------------------------|
| Combustion Air | 537 cfm (15.2 m ³ /min) |
| Maximum Air Cleaner Restriction | 25 in. H ₂ O (6.25 kPa) |
| Alternator Cooling Air | 1459 cfm (41.3 m ³ /min) |
| Radiator Cooling Air | 9450 cfm (267.5 m ³ /min) |

| Exhaust System | |
|-----------------------|--------------------------------------|
| Gas Flow (full load) | 1,123 cfm (31.8 m ³ /min) |
| Gas Temperature | 831°F (444°C) |
| Maximum Back Pressure | 70 in. H ₂ O (23.96 kPa) |

| Amperage | |
|---|---------------------|
| Rated Voltage | Maximum Amps |
| 1Ø 120 Volt | 488.9 Amps (4 wire) |
| 1Ø 240 Volt | 244.4 Amps (4 wire) |
| 3Ø 240 Volt | 529 Amps |
| 3Ø 480 Volt | 264 Amps |
| Main Line Circuit Breaker Rating | 600 Amps |
| Over Current Relay Trip Set Point 480V Mode Only | 256 Amps |

WARRANTY*

John Deere Engine

12 months from date of purchase with unlimited hours or 24 months and prior to the accumulation of 2000 hours (whichever comes 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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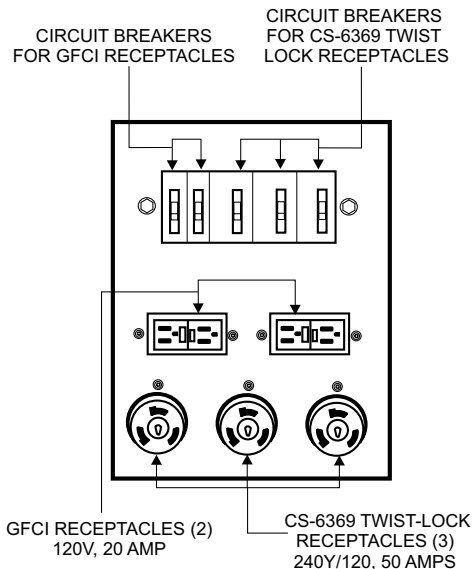
MQ POWER DECIBEL LEVELS

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



GENERATOR OUTPUT PANEL



OPTIONAL GENERATOR FEATURES

- **Parallel Controls** — provides the ability to connect multiple generators together into a single power generation system.
- **PowerBalance™** — designed to assist generators when operating under low temperature and/or low load conditions to insure peak performance.
- **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° (1500 watts).
- **Heavy-Duty batteries** — long life batteries provide extra engine cranking power.
- **Trailer mounted package** — highway legal trailer with electronic or surge brakes on all axles. Extra capacity fuel tanks are also available.

OPTIONAL CONTROL FEATURES

- **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

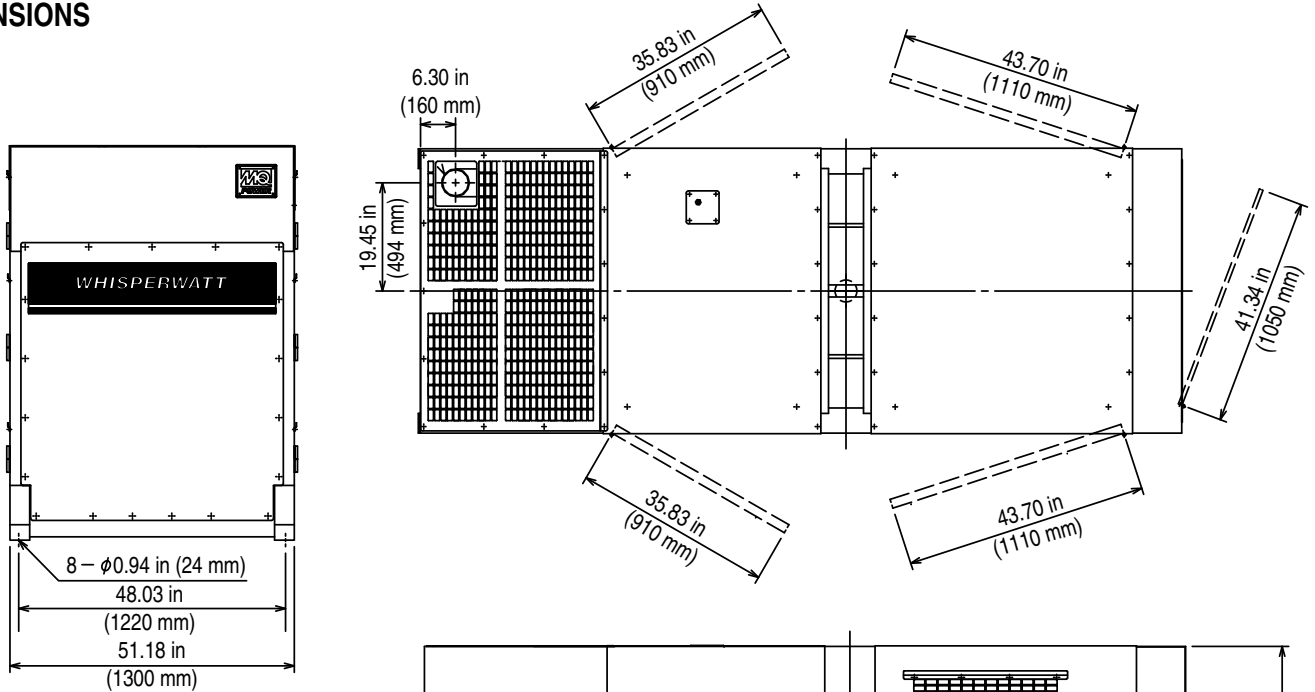
- **Cam-Loks** — provide quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provide industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.



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DIMENSIONS



| Weight | |
|-----------------------------|------------------------|
| Dry Weight | 7,695 lbs. (3,490 kg) |
| Wet Weight | 8,489 lbs. (3,850 kg) |
| Max. Lifting Point Capacity | 14,050 lbs. (6,373 kg) |

NOTICE
Features and Specifications are subject to change without notice.

Generator can be placed on MQ Trailer Model TRLR220XF (H/E).

Manufactured by Denyo Co.

Your Multiquip dealer is:

