



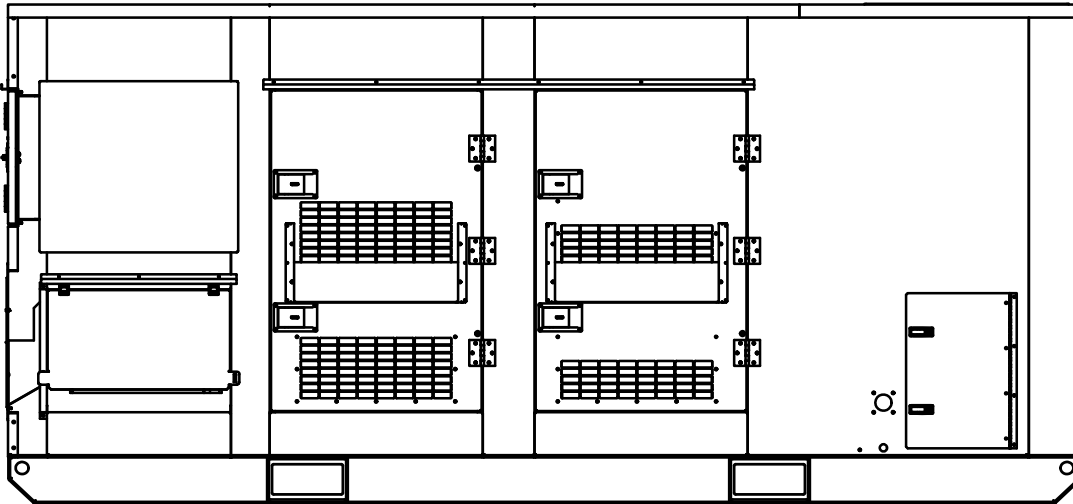
NG200

MQ POWER

Prime Rating — 200 kW (250 kVA)

Standby Rating — 220 kW (275 kVA)

3-Phase, 60 Hertz, 0.8 PF



STANDARD FEATURES

- Heavy duty, in-line 4-cycle, turbocharged, charged after-cooled, natural gas engine provides maximum reliability.
 - replaceable wet liners
 - water-cooled exhaust
- Engine ECU integrates critical functions including:
 - engine speed governor
 - variable ignition timing
 - air/fuel ratio control
 - knock suppression
 - engine protection
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class H 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).
- Multi-stage, water-coalescing filter, to remove solids and liquids from the gas supply, providing enhanced operation with reduced operating and maintenance costs.
- Sound attenuated, weather resistant, steel housing provides operation at TBD at 23 feet. Fully lockable enclosure allows safe unattended operation.
- Powder coat paint provides durability and weather protection.
- Basler DGC2020 microprocessor-based digital generator controller with integrated genset-to-genset (isolated bus) paralleling
 - 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.
 - Onboard Synchronization and kW/kVAR load sharing. Dual Ethernet ports for Inter-Genset communication.
 - 12 Contact Outputs for flexible customer alarm configurations.
- EPA emission certified.



NG200

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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 | 220 KW (275 KVA) |
| Prime Output | 200 KW (259 KVA) |
| 3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 240/139 | 208Y/120, 220Y/127, 240Y/139 |
| 3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 480/277 | 416Y/240, 440Y/254, 480Y/277 |
| 1Ø Voltage (L-L/L-N) (Voltage Selector Switch at 1Ø 240/120) | N/A |
| Power Factor | 0.8 |
| Voltage Regulation (No load to full load) | ±0.25% |
| Generator RPM | 1800 |
| Frequency | 60 Hz |
| No. of Poles | 4 |
| Excitation | PMG |
| 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 | TBD |

Engine Specifications

| | |
|--|-----------------------------------|
| Make / Model | PSI HD / NGE 11.1 L |
| Emissions | EPA Certified |
| Starting System | 24 VDC Electric Starter Motor |
| Design | S/A NGA150 |
| Displacement | 677 in ³ (11.1 liters) |
| No. cylinders | 6 |
| Bore x Stroke | 4.84 x 6.1 in. (123 x 155 mm) |
| Gross Engine Power Standby Rating (Flywheel) | |
| Natural Gas | 239 hp (178 kW) |
| LP Gas | 164 hp (122 kW) |
| Gross Engine Power Prime Rating (Flywheel) | |
| Natural Gas | 302 hp (255 kW) |
| LP Gas | 208 hp (155 kW) |
| BMEP | |
| Prime Power Rating (Natural Gas) | 197 psi (14BAR) |
| Piston Speed | 1830 Ft/min (9.3 m/s) |
| Compression Ratio | 10.5:1 |
| Engine Speed | 1800 rpm |
| Overspeed Limit | 2000 rpm |
| Oil Capacity (w/ filter) | 7.5 gallons (28.5 liters) |
| Battery Voltage | 24VDC/Group 31 x 900CCA x 2 |
| Battery Charging Alternator | 45 Amps |

Fuel System

| | | |
|---------------------------------------|---|-------------------------|
| Recommended Fuel | Low-pressure, dry-processed natural gas; approved oilfield well-head natural gas | |
| Minimum Nat-Gas Supply Pipe Size | 1 1/4 in NPT | |
| Maximum Operating Pressure to EPR | 11 in/H ₂ O (2.7 kPa) | |
| Minimum Operating Pressure to EPR | 7 in/H ₂ O (1.7 kPa) | |
| NG Inlet Pressure | 15 - 100 PSI | |
| Fuel Consumption (Natural Gas) | ft³/hr | m³/hr |
| At full load | 2115 | 59.9 |
| At 3/4 load | 1648 | 46.7 |
| At 1/2 load | 1157 | 32.8 |
| At 1/4 load | 705 | 20.0 |

Cooling System

| | |
|--|--------------------------------|
| Fan Load | 9.0 hp (6.7 kW) |
| Coolant Capacity (with radiator) | 23 gallons (105 liters) |
| Coolant Flow Rate (per minute) | 82 gallons (310 liters) |
| Heat Rejection to Coolant (per minute) | 11,071 Btu/min (46.5 Kcal/sec) |
| Ambient Temperature Rating | 122°F (50°C) |

Air

| | |
|---------------------------------|--------------------------------------|
| Combustion Air | 448 cfm (13 m ³ /min) |
| Maximum Air Cleaner Restriction | 15 in. H ₂ O (3.74 kPa) |
| Alternator Cooling Air | 1130 cfm (32 m ³ /min) |
| Radiator Cooling Air | 18,000 cfm (510 m ³ /min) |

Exhaust System

| | |
|-----------------------------------|--------------------------------------|
| Gas Flow (full load) | 1425 cfm (40.3 m ³ /min) |
| Maximum Turbine Inlet Temperature | 1382°F (750°C) |
| Maximum Allowable Back Pressure | 40.8 in. H ₂ O (10.2 kPa) |

Amperage

| | |
|---|---------------------|
| Rated Voltage | Maximum Amps |
| 3Ø 240/208 Volt | 601/694 Amps |
| 3Ø 480 Volt | 300 Amps |
| Main Line Circuit Breaker Rating | 800 Amps |
| Over Current Relay Trip Set Point 480V Mode Only | 350 Amps |

WARRANTY*

PSI HD Engines

12 months from date of purchase with unlimited hours.

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.



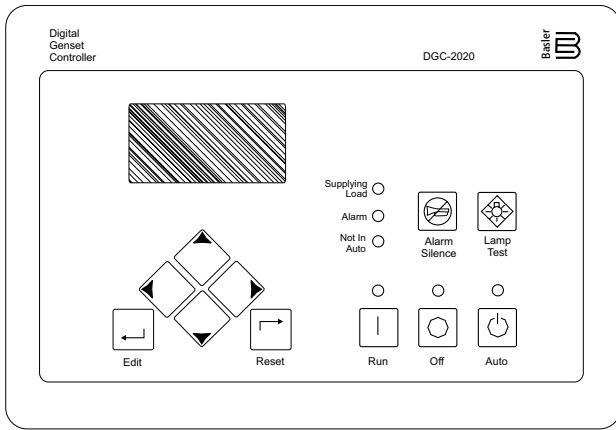
NOTICE

Generator is not intended for use in enclosed areas or where free flow of air is restricted.

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.

DGC-2020 DIGITAL CONTROLLER



Features:

- Local and Remote Generator Control
- Automatic and manual starting and stopping
- Engine and Generator Protection
- Programmable Analog Engine Senders
- ECU Communications via SAE J1939
- 16 Programmable Contact Inputs
- Programmable Logic
- Automatic Transfer Switch Control (Mains Failure)
- Integrated RS485
- Auto Synchronizing
- Event recording
- Monitoring
- Engine RPM
- Engine run time
- Generator voltage
- Generator current
- Generator frequency
- Oil pressure
- Battery voltage
- Fuel level measurements
- Running Hour Meter
- Coolant temperature
- Generator under/over voltage alarm/shutdown
- Generator under/over frequency alarm/shutdown
- Over Current alarm/shutdown
- Warm up and cooling functions
- Maintenance timer

OPTIONAL GENERATOR FEATURES

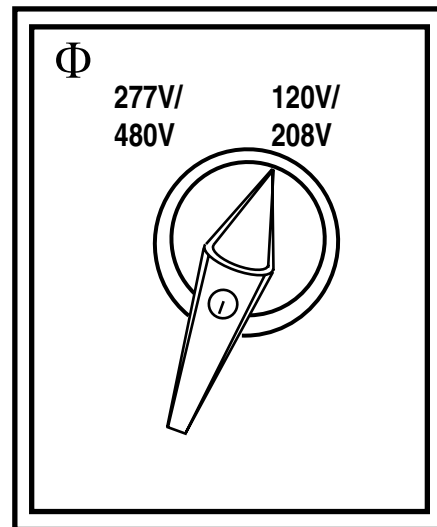
- **Battery charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Jacket water heater** — for easy starting in cold weather climates below 0°.
- **Trailer mounted package** — highway legal trailer with electronic or surge brakes on all axles.
- **Audible alarm** — alerts operator of abnormal conditions.
- **Emergency stop switch** — when manually activated, shuts down generator in the event of an emergency.

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.

VOLTAGE SELECTOR SWITCH

The voltage selector switch is located above the output terminal panel's Hard Wire Hook-Up Panel. It is provided for ease of voltage selection.



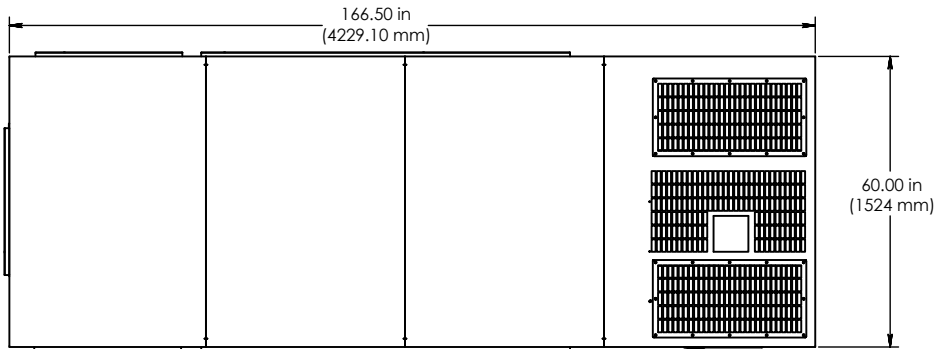
| Voltages Available | | | | | | |
|--------------------------|--|------|------|---|------|------|
| UVW Output Terminal Lugs | Voltage Selector Switch 3-Phase 120V/208V Position | | | Voltage Selector Switch 3-Phase 277/480V Position | | |
| 3Ø Line-Line | 208V | 220V | 240V | 416V | 440V | 480V |
| 1Ø Line-Neutral | 120V | 127V | 139V | 240V | 254V | 277V |



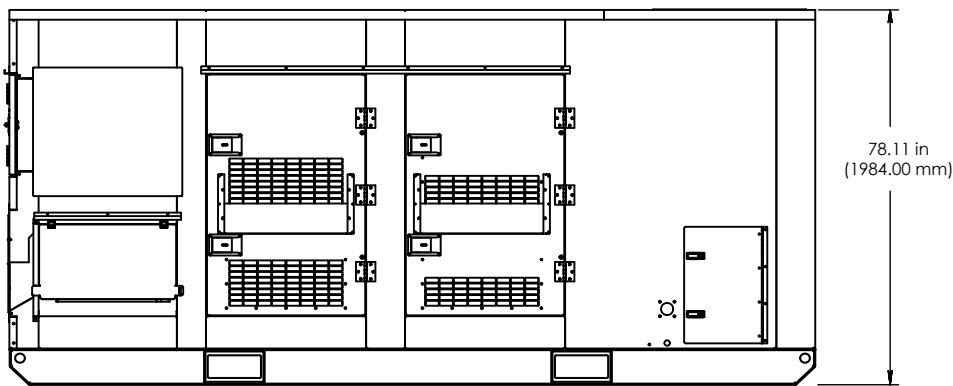
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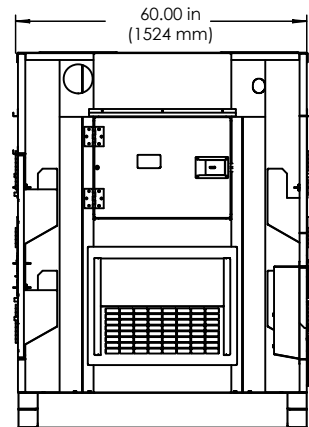
DIMENSIONS



TOP VIEW



RIGHT VIEW



REAR VIEW

Weight

| | |
|------------|-----|
| Dry Weight | TBD |
| Wet Weight | TBD |

Your Multiquip dealer is:

