Gaseous Product Line

GM100-03

90 kWe

Standby

208-600 Volt

60 Hz / 1800 RPM

Standby Ratings

<table>
<thead>
<tr>
<th>Phase</th>
<th>240V</th>
<th>208V</th>
<th>240V</th>
<th>480V</th>
<th>600V</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF</td>
<td>1.0</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
</tr>
<tr>
<td>Hz</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

Generator Model

- 363CSL1607
- 362CSL1606
- 362CSL1606
- 362CSL1604
- 362PSL1635

Connection

- 12 LEAD ZIG-ZAG
- 12 LEAD DELTA
- 12 LEAD ZIG-ZAG
- 12 LEAD DELTA
- 4 LEAD WYE

kWe Nat (LP)

- 90 (80)
- 90 (80)
- 90 (80)
- 90 (80)
- 90 (80)

AMPS Nat (LP)

- 375 (333)
- 313 (278)
- 271 (241)
- 135 (120)
- 108 (96)

Temp Rise

- 130˚C / 27˚C
- 130˚C / 27˚C
- 130˚C / 27˚C
- 130˚C / 27˚C
- 130˚C / 27˚C

Standard Equipment

Engine
- Radiator Cooled Unit Mounted (50˚C)
- Blower Fan & Fan Drive
- Starter & Alternator
- Oil Pump & Filter
- Oil Drain Extension w/Valve
- Governor - Electronic Isochronous
- 12V Battery System & Cables
- Air Cleaner (Dry Single Stage)
- Flexible Fuel Connector
- EPA Certified

Generator
- Brushless Single Bearing
- Automatic Voltage Regulator
- ± 1% Voltage Regulation
- 4 Pole, Rotating Field
- 130˚C Standby Temperature Rise
- 100% of Rated Load - One Step
- 5% Maximum Harmonic Content
- NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise

Additional
- Single Source Supplier
- Microprocessor Based Digital Control
- Interface Connection Box
- Control Panel Mounted in NEMA 12 Enclosure
- Base - Formed Steel
- Main Line Circuit Breaker Mounted & Wired
- Catalyst / Silencer Mounted
- Battery Charger 12V 6 Amp
- Jacket Water Heater -20˚F 1500W 120V w/Isolation Valves
- Vibration Isolation Mounts
- Radiator Duct Flange (OPU Only)
- 2YR / 2000HR Standby Warranty
- Standard Colors - White / Gray

Listing Certifications
- UL 2200 Listed
- cUL Listed
- CSA Certified
- Seismic Certified to IBC 2018
- NFPA 110 Compliant

GM100-03
### Engine Data

- **Manufacturer:** General Motors
- **Model:** GM 5.7LTCAC
- **Type:** 4-Cycle
- **Aspiration:** Turbo Charged, CAC
- **Cylinder Arrangement:** 8 Cylinder Vee
- **Displacement - Cu. In. (lit):** 350 (5.70)
- **Bore - in. (cm) x Stroke - in. (cm):** 4.00 (10.2) x 3.50 (8.80)
- **Compression Ratio:** 9.40:1
- **Rated RPM:** 1800
- **Max HP Stby (kW):** 161 (120)

### Exhaust System

- **Gas Temp. (Stack): °F (°C):** 1,350 (732)
- **Gas Volume at Stack Temp: CFM (m³/min):** 846 (23.9)
- **Maximum Allowable Exhaust Restriction: in. H₂O (kPa):** 40.8 (10.2)

### Cooling System

- **Ambient Capacity of Radiator: °F (°C):** 122 (50)
- **Maximum Allowable Static Pressure on Rad. Exhaust: in. H₂O (kPa):** 0.50 (0.12)
- **Water Pump Flow Rate: GPM (lit/min):** 40.0 (147.6)
- **Heat Rejection to Coolant: BTUM (kW):** 4,100 (71.8)
- **Heat Rejection to CAC: BTUM (kW):** 711 (12.4)
- **Heat Radiated to Ambient: BTUM (kW):** 1,536 (26.9)

### Air Requirements

- **Aspirating: CFM (m³/min):** 262 (7.41)
- **Air Flow Required for Rad. Cooled Unit: CFM (m³/min):** 16,500 (467)
- **Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min):** Consult Factory For Remote Cooled Applications

### Fuel Consumption

<table>
<thead>
<tr>
<th>Natural Gas</th>
<th>LP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 100% of Power Rating: ft³/hr (m³/hr)</td>
<td>1,360 (38.5)</td>
</tr>
<tr>
<td>At 75% of Power Rating: ft³/hr (m³/hr)</td>
<td>1,110 (31.4)</td>
</tr>
<tr>
<td>At 50% of Power Rating: ft³/hr (m³/hr)</td>
<td>770 (21.8)</td>
</tr>
<tr>
<td>Fuel Inlet Size: NPT</td>
<td></td>
</tr>
<tr>
<td>Fuel Pressure Required: in. H₂O (kPa)</td>
<td></td>
</tr>
</tbody>
</table>

### Fluids Capacity

| Total Oil System: gal (lit) | 1.50 (5.70) |
| Engine Jacket Water Capacity: gal (lit) | 2.03 (7.67) |
| System Coolant Capacity: gal (lit) | 6.30 (23.8) |

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All calculations based on natural gas fuel.

Dereation Factors: Temperature: Derate 1% Per 10°F Over 77°F Air Inlet Temperature | Altitude: Derate 3% Per 1,000 ft Over 328 ft
Gaseous Product Line

90 kWe

DGC-2020 Control Panel

Standard Features

- Digital Metering
- Engine Parameters
- Generator Protection Functions
- Engine Protection
- CAN Bus (J1939) ECU Communications
- Windows-Based Software
- Multilingual Capability
- Remote Communications to RDP-110 Remote Annunciator
- 16 Programmable Contact Inputs
- 15 Contact Outputs
- RS485 Communicator Interface
- UL Recognized, CSA Certified, CE Approved
- Event Recording
- IP 54 Front Panel Rating with Integrated Gasket
- NFPA 110 Level 1 Compatible

Weights / Dimensions / Sound Data

<table>
<thead>
<tr>
<th></th>
<th>L x W x H</th>
<th>Weight lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPU</td>
<td>96 x 54 x 62 in</td>
<td>2,600</td>
</tr>
<tr>
<td>Level 1</td>
<td>112 x 54 x 80 in</td>
<td>3,450</td>
</tr>
<tr>
<td>Level 2</td>
<td>112 x 54 x 80 in</td>
<td>3,525</td>
</tr>
<tr>
<td>Level 3</td>
<td>152 x 54 x 80 in</td>
<td>3,750</td>
</tr>
</tbody>
</table>

Please allow 6-12 inches for height of exhaust stack.

<table>
<thead>
<tr>
<th></th>
<th>No Load</th>
<th>Full Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPU</td>
<td>81 dBA</td>
<td>83 dBA</td>
</tr>
<tr>
<td>Level 1</td>
<td>75 dBA</td>
<td>78 dBA</td>
</tr>
<tr>
<td>Level 2</td>
<td>71 dBA</td>
<td>74 dBA</td>
</tr>
<tr>
<td>Level 3</td>
<td>67 dBA</td>
<td>69 dBA</td>
</tr>
</tbody>
</table>

Drawings based on standard open power 480 volt standby generator. Lengths may vary with other voltages. Subject to change without notice.
Sound data as measured at 23 feet (7 meters) in accordance with ISO 8528-10 at standby rating.
Enclosures

Level 1 & 2 | Side View (Weather Proof)

Level 3 | Side View (Sound Attenuated)

Level 1, 2 & 3 | Intake View

All enclosure models are 200 MPH wind rating certified in accordance with IBC2018 and ASCE/SEI 7-16 standards.

Level 2 & 3 enclosures include sound attenuation foam.

Level 3 enclosure includes frontal sound & exhaust hood.

*Enclosure height does not include exhaust stack.

All specification sheet dimensions are represented in inches. Materials and specifications subject to change without notice.

Distributed By:

Blue Star Power Systems, Inc.
2250 Carlson Drive
North Mankato, Minnesota 56003
Phone +1 507 345 1776
bluestarps.com
quote.bluestarps.com
sales@bluestarps.com