

208-600 Volt

GM100-03 60 Hz / 1800 RPM

100 kWe Standby

## Ratings

	240V	208V	240 <b>V</b>	480 <b>V</b>	600 <b>V</b>
Phase	1	3	3	3	3
PF	1.0	0.8	0.8	0.8	0.8
Hz	60	60	60	60	60
Generator Model	364CSL1609	362CSL1606	362CSL1606	362CSL1606	362PSL1636
Connection	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
kWe Nat (LP)	100 (80)	100 (80)	100 (80)	100 (80)	100 (80)
AMPS Nat (LP)	417 (333)	347 (278)	301 (241)	151 (120)	120 (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

#### **Listing Certifications**

- ▶ UL 2200 Listed
- ▶ cUL Listed
- ► CSA Certified
- ▶ Seismic Certified to IBC 2018
- ▶ NFPA 110 Compliant

#### 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

GM100-03 1 of 4

### 100 kWe



# Application Data

Engine			
Manufacturer:	General Motors	Displacement - Cu. In. (lit):	350 (5.70)
Model:	GM 5.7LTCAC	Bore - in. (cm) x Stroke - in. (cm):	4.00 (10.2) x 3.50 (8.80)
Type:	4-Cycle	Compression Ratio:	9.40:1
Aspiration:	Turbo Charged, CAC	Rated RPM:	1800
Cylinder Arrangement:	8 Cylinder Vee	Max HP Stby (kWm):	164 (122)

Exhaust System		Standby
Gas Temp. (Stack): °F (°C)		1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)		846 (23.9)
Maximum Allowable Exhaust Restriction (Pre-Catalyst): in. H <sub>2</sub> O (kPa)		40.8 (10.2)
Cooling System		
Ambient Capacity of Radiator: °F (°C)		122 (50)
Maximum Allowable Static Pressure on Rad. Exhaust: in. H <sub>2</sub> O (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)		2,208 (38.6)
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 F	or Remote Cooled Applications
Fuel Consumption	Natural Gas	LP
At 100% of Power Rating: ft3/hr (m3/hr)	1,360 (38.5)	509 (14.4)
At 75% of Power Rating: ft3/hr (m3/hr)	1,110 (31.4)	411 (11.6)
At 50% of Power Rating: ft3/hr (m3/hr)	770 (21.8)	290 (8.22)
Fuel Inlet Size: NPT		1.50"
Fuel Pressure Required: in. H <sub>2</sub> O (kPa)		11.0 (2.75)
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)

All calculations based on natural gas fuel.

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

GM100-03 2 of 4

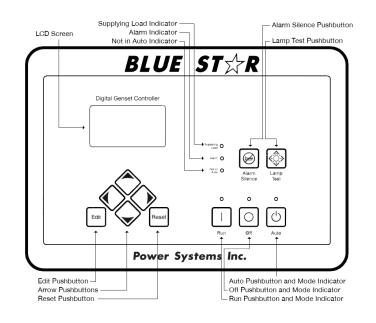
#### 100 kWe



## 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

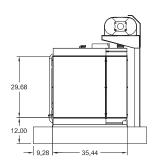


## Weights / Dimensions / Sound Data

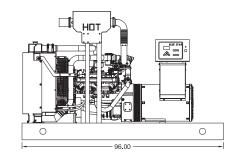
	LxWxH	Weight lbs
OPU	96 x 54 x 62 in	2,600
Level 1	112 x 54 x 80 in	3,450
Level 2	112 x 54 x 80 in	3,525
Level 3	152 x 54 x 80 in	3,750

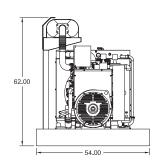
Please allow 6-12 inches for height of exhaust stack.

FUEL STUB-UP AREA 8X8	26.91 18.03 2.00	
:	2.00 APPE	17.53
	26.00	



	No Load	Full Load
OPU	81 dBA	83 dBA
Level 1	75 dBA	78 dBA
Level 2	71 dBA	74 dBA
Level 3	67 dBA	69 dBA





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.

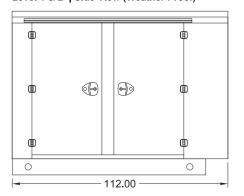
GM100-03 3 of 4

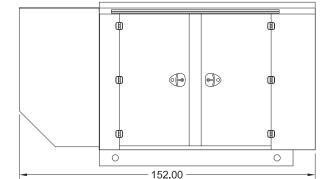
### 100 kWe



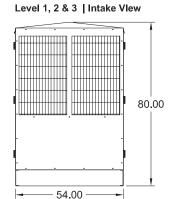
## **Enclosures**

Level 1 & 2 | Side View (Weather Proof)





Level 3 | Side View (Sound Attenuated)



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.



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