



## Gaseous Product Line

**208-600 Volt**

**GM50-03**

**60 Hz / 1800 RPM**

**50 kWe**

**Standby**

## Ratings

	240V	208V	240V	480V	600V
<b>Phase</b>	1	3	3	3	3
<b>PF</b>	1.0	0.8	0.8	0.8	0.8
<b>Hz</b>	60	60	60	60	60
<b>Generator Model</b>	361CSL1602	361CSL1601	361CSL1601	361CSL1601	361PSL1633
<b>Connection</b>	12 LEAD ZIG-ZAG	12 LEAD WYE	12 LEAD DELTA	12 LEAD WYE	4 LEAD WYE
<b>Standby</b>					
<b>kWe Nat (LP)</b>	50 (50)	50 (50)	50 (50)	50 (50)	50 (50)
<b>AMPS Nat (LP)</b>	208 (208)	174 (174)	151 (151)	75 (75)	60 (60)
<b>Temp Rise</b>	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C	105°C / 40°C

## Standard Equipment

- |  |  |   |
|--|--|---|
| <b>Engine</b> <ul style="list-style-type: none"><li>▶ Radiator Cooled Unit Mounted (50°C)</li><li>▶ Blower Fan &amp; Fan Drive</li><li>▶ Starter &amp; Alternator</li><li>▶ Oil Pump &amp; Filter</li><li>▶ Oil Drain Extension w/Valve</li><li>▶ Governor - Electronic Isochronous</li><li>▶ 12V Battery System &amp; Cables</li><li>▶ Air Cleaner (Dry Single Stage)</li><li>▶ Flexible Fuel Connector</li><li>▶ EPA Certified</li></ul> | <b>Generator</b> <ul style="list-style-type: none"><li>▶ Brushless Single Bearing</li><li>▶ Automatic Voltage Regulator</li><li>▶ ± 1% Voltage Regulation</li><li>▶ 4 Pole, Rotating Field</li><li>▶ 105°C Standby Temperature Rise</li><li>▶ 100% of Rated Load - One Step</li><li>▶ 5% Maximum Harmonic Content</li><li>▶ NEMA MG 1, IEEE and ANSI Standards Compliance for Temperature Rise</li></ul> | <b>Additional</b> <ul style="list-style-type: none"><li>▶ Microprocessor Based Digital Control</li><li>▶ Interface Connection Box</li><li>▶ Control Panel Mounted in NEMA 12 Enclosure</li><li>▶ Base - Formed Steel</li><li>▶ Main Line Circuit Breaker Mounted &amp; Wired</li><li>▶ Critical Grade Silencer Mounted</li><li>▶ Battery Charger 12V 6 Amp</li><li>▶ Jacket Water Heater -20°F 1500W 120V w/Isolation Valves</li><li>▶ Vibration Isolation Mounts</li><li>▶ Radiator Duct Flange (OPU Only)</li><li>▶ Single Source Supplier</li><li>▶ 2YR / 2000HR Standby Warranty</li><li>▶ Standard Colors - White / Tan / Gray</li></ul> |
|--|--|---|

# Gaseous Product Line

50 kWe



**POWERDAK**  
POWER PRODUCTS, LLC

## Application Data

<b>Engine</b>			
Manufacturer:	General Motors	Displacement - Cu. In. (lit):	350 (5.70)
Model:	GM 5.7L EPA	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:	Natural	Rated RPM:	1800
Cylinder Arrangement:	8 Cylinder Vee	Max HP Stby (kWm):	113 (78.1)

<b>Exhaust System</b>		<b>Standby</b>
Gas Temp. (Stack): °F (°C)		1,350 (732)
Gas Volume at Stack Temp: CFM (m³/min)		553 (15.7)
Maximum Allowable Exhaust Restriction: in. H <sub>2</sub> O (kPa)		40.8 (10.2)

<b>Cooling System</b>		
Ambient Capacity of Radiator: °F (°C)		122 (50.0)
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)		36.6 (139)
Heat Rejection to Coolant: BTUM (kW)		3,120 (54.6)
Heat Rejection to CAC: BTUM (kW)		N/A
Heat Radiated to Ambient: BTUM (kW)		854 (14.9)

<b>Air Requirements</b>		
Aspirating: CFM (m³/min)		173 (4.90)
Air Flow Required for Rad. Cooled Unit: CFM (m³/min)		7,400 (209)
Air Flow Required for Heat Exchanger/Rem. Rad. CFM (m³/min)		Consult Factory For Remote Cooled Applications

<b>Fuel Consumption</b>	<b>Natural Gas</b>	<b>LP</b>
At 100% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	734 (20.8)	308 (8.72)
At 75% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	614 (17.4)	250 (7.08)
At 50% of Power Rating: ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	482 (13.6)	195 (5.51)
Fuel Inlet Size: NPT		1.00"
Fuel Pressure Required: in. H <sub>2</sub> O (kPa)		7.00 - 11.0 (1.75 - 2.75)

<b>Fluids Capacity</b>		
Total Oil System: gal (lit)		1.25 (4.73)
Engine Jacket Water Capacity: gal (lit)		2.03 (7.68)
System Coolant Capacity: gal (lit)		6.00 (22.7)

All calculations based on natural gas fuel.

Deration Factors: Altitude: Derate 3% Per 1,000 ft (305 m) Over 2,000 ft (610 m)



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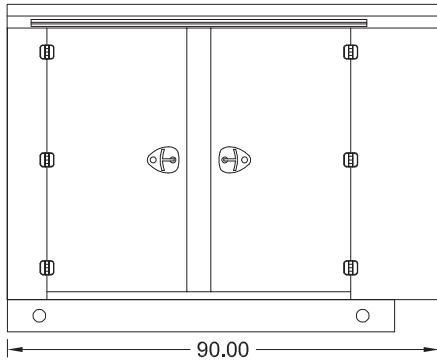
50 kWe



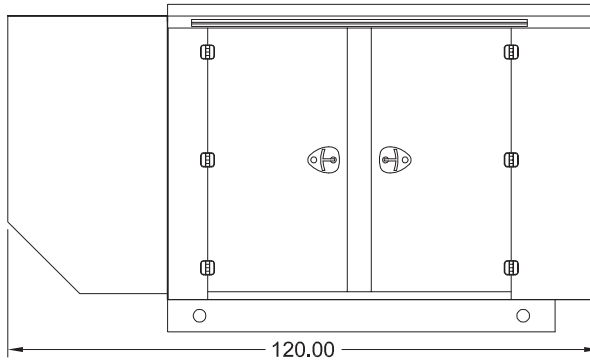
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## Enclosures

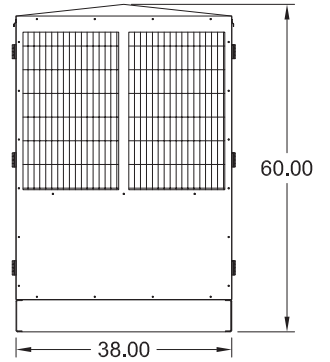
Level 1 & 2 | Side View (Weather Proof)



Level 3 | Side View (Sound Attenuated)



Level 1, 2 & 3 | Intake View



All enclosures are 150 MPH Wind Rated.

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.

American Owned



American Made

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