



4.3L GM Powered Generator — Natural Gas/LPG

SG Series 45kW



EPA Emissions Compliant

Standard Features

- GM Vortec Engine Model 4300
- AC, Single Bearing direct coupled Alternator with Class 'H' insulation, Sized for 130°C Temperature Rise
- Control Panel with Auto-Start -Stop Basler DGC-2020
- Engine and Alternator mounted to aluminum base on vibration isolators
- Radiator sized for 120°F ambient clearance
- Thermostatically controlled Jacket Water Heater
- High Coolant Temp., Low Oil pressure safety shutdowns.
- Dry Type Air Cleaner
- 12-VDC Starter, Engine mounted Battery Charging Alternator, Battery Cables and Rack along with Grounding Strap
- Battery Charger—6 Amp
- Complete set owner/operator, engine, alternator and accessory manuals



Sample unit shown w/o exhaust silencer

Generator Ratings—1800 RPM Natural Gas/LPG

Voltage	Ph	Hz	Standby Output kW (kVA) LPG	Standby Output kW (kVA) Natural Gas	Standby Max Amp Output	Wires
120/240	1	60	45 (45)	40 (40)	187	12
120/208	3	60	45 (56)	45 (56) 40 (50) 156		12
120/240	3	60	45 (56)	40 (50)	135	12
277/480	3	60	45 (56)	40 (50)	66	12

Optional Equipment

Deluxe Enclosure—Features

- Weather Protective Enclosure constructed of 0.125" marine grade aluminum
- Sound attenuating insulation
- Weather proof and wind resistant up to 150mph
- Powder coat finished exterior and interior (standard grey)
- Removable, hinged doors (pictured) with keyed alike locks
- Interior mounted, residential grade exhaust silencer
- Battery Charger—6 Amp
- 120V Receptacle for battery charger and / or coolant heater
- Vertical radiator and exhaust discharge
- Oil & coolant drain lines with brass ball valves



Sample Deluxe model shown

Deluxe Enclosure—Options

- Custom color options
- Exterior mounted Emergency stop button with clear cover (pictured)
- Exterior accessible GFCI outlet (s) with weather protective cover

Additional Gen-set Options

- Mainline circuit breaker (s)
- Permanent Magnet Generators (PMG) with Voltage Regulator upgrade
- Low coolant level switch
- Starting batteries
- 17 Light remote enunciator panel
- Powder coated steel sub base
- 120V Receptacle for battery charger and / or coolant heater
- Transfer switches
- UL 2200 Certification (Ask your representative for availability)

*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85°F (29°C) and an elevation of 1,000 feet (305 meters). Please consult your **Stateline** representative for information concerning derates for temperature, altitude & humidity.

SG-45 Technical Data



Engine Specifications

Model: GM 4.3L 43	00 VORTEC
Direct injected, 90	° V-type, 6 Cylinder
Naturally Aspirated	d, Dry type Air Cleaner
Max Power	45 kWm (61

Max. Power	45 kWm (61 bhp) @ 1800 RPM
Cubic Capacity	263 in ³ / 4.3 L
Bore & Stroke4.00	" x 3.48" (101.6mm x 88.39mm)
Compression Ratio	9.1:1
	Electronic
Frequency RegulationIso	chronous, Steady-State ± 0.5%
Oil capacity Total system	5 Qts. (4.7 liters)
Coolant capacity w/ Radiator.	

Installation Data

Air requirement:

Air Flow for Rad CFM (m³/min.).....5157 (146)

Exhaust System:

Recommended Outlet size......3" (76.2mm)

Gas Temp. (stack)	1350°F / 732°C
Gas Volume @ stack Temp. CFM (m3/	/min.)330 (9.3)
Max. allowable back pressure	40.7 in. H ₂ O / 10.1kPa

Fuel Consumption:

•	NG 1000 Btu/ft ³			LPG 2500 Btu/ft ³		
Load Percentage (%)	50	75	100	50	75	100
Cu ft./h	360	486	584	147	202	246

Fuel Supply Line inlet	1-1/4" NPT
Pressure	7-11 in. H ₂ O

General:

Electronic Ignited, Breaker less

12V Starter, 70 Amps Alternator DC output Electric System

Alternator Specifications

Туре	Pole	Voltage Regulation	Class Insulation	Rated Temp. Standby	Coupling	Load Acceptance	
Brushless	4 Pole Rotating Field	+/- 1%, Volts/Hz, Electronic, EMI filtered	'H' to NEMA MG-1 -1.66	130°C Rise / 40°C Ambient	SAE Adapter, Flexible Disc, Direct.	One Step, 100% per NFPA 110	
	Self ventilated, drip-proof construction. Superior voltage waveform achieved by a 2/3 pitch and skewed rotor. Vacuum-						

Features

Self ventilated drip-proof construction. Superior voltage waveform achieved by a 2/3 pitch and skewed rotor. Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life. Compliance with NEMA, IEEE and ANSI standards for temp. rise. Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field. No load to full-load regulation of +/- 2%.

Control Panel Specifications

DGC2020

- Microprocessor Based, Navigation key with large LCD display
- Event Recording
- Transfer Switch Control (main failures)
- SAE J1939 CANBUS Communication
- Multilingual Capability
- Suitable for Rental application
- Remote Communication capability

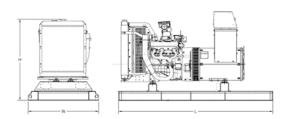
Operational features

- Alternator Protection: under/over voltage, under/over frequency and Over Load
- Engine Protection: Low oil pressure, High coolant temperature, Over speed & over crank, Sender Unit failure, Fuel Leak / Fuel sender Failure, Battery Charger Failure
- All protections are programmable as Alarms or Pre-alarms
- Operating Power: Nominal 12-24 Vdc

- Consumption 14.2W run Mode
- Metering (ample range):
 Volts, Current, Hz, Watts, VA, Pf
 Oil Pressure, Coolant Temperature,
 RPM, DC Volts, Fuel Level, Engine
 running time
- Engine Control with Timers
- External remote start input (on or off load)
- 16 programmable contact inputs
 - 4 Contact outputs

Dimensions & Weight

Open: (inches) 84L x36W x48H



Weight (lbs.) 1568





Deluxe: (inches) 103L x36W x57H Weight (lbs.) 1990