

# SG-80



## 5.7L GM Powered Generator— Natural Gas/LPG

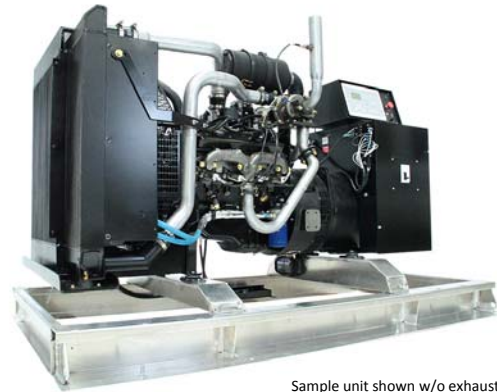
### SG Series 80kW



EPA Emissions Compliant

### Standard Features

- GM Vortec Engine Model 5700
- 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	80 ( 80 )	80 ( 80 )	333	12
120/208	3	60	80 ( 100 )	80 ( 100 )	278	12
120/240	3	60	80 ( 100 )	80 ( 100 )	240	12
277/480	3	60	80 ( 100 )	80 ( 100 )	120	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
- 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.

Manufactured by:

Stateline Power Corp • 650 Pine Street • Greenville, OH 45331 • 800-524-8344 www.statelinepower.com

# SG-80 Technical Data



## Engine Specifications

**Model: GM 5.7L TCAC 5700 VORTEC**  
*Direct injected, 90° V-type, 8 Cylinder*  
*Turbocharged & Air Cooled, Dry type Air Cleaner*  
 Max. Power.....115.4 kWm (155 bhp) @ 1800 RPM  
 Cubic Capacity.....350 in<sup>3</sup> / 5.7 L  
 Bore & Stroke.....4.00" x 3.48" (101.6mm x 88.39mm)  
 Compression Ratio.....9.4:1  
 Governor type.....Electronic  
 Frequency Regulation.....Isochronous, Steady-State ± 0.5%  
 Oil capacity Total system.....6 Qts. (5.7 liters)  
 Coolant capacity w/ Radiator.....9 Gal. (34 liters)

Gas Temp. (stack).....1350°F / 732°C  
 Gas Volume @ stack Temp. CFM (m<sup>3</sup>/min.).....330 (9.3)  
 Max. allowable back pressure.....40.7 in. H<sub>2</sub>O / 10.1kPa

### Fuel Consumption:

Load Percentage (%)	NG 1000 Btu/ft <sup>3</sup>			LPG 2500 Btu/ft <sup>3</sup>		
	50	75	100	50	75	100
Cu ft./h	771	868	1000	332	408	459

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

### Installation Data

*Air requirement:*  
 Air Flow for Rad CFM (m<sup>3</sup>/min.).....16,500 (467)  
*Exhaust System:*  
 Recommended Outlet size.....3" (76.2mm)

### General:

*Electronic Ignited, Breaker less*  
*12V Starter, 70 Amps Alternator DC output Electric System*  
 Recommended Battery.....12V, 950 CCA  
 Recommended Oil.....SAE 5W-30 for 0°F and above

## Alternator Specifications

Type	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
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

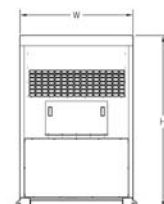
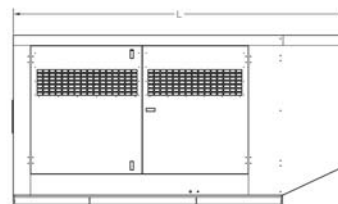
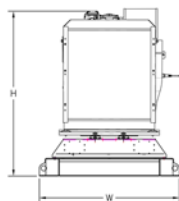
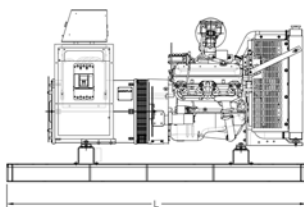
- Microprocessor Based, Navigation key with large LCD display
- Event Recording
- Transfer Switch Control (main failures)
- SAE J1939 CANBUS Communication
- Multilingual Capability
- Suitable for Rental application
- Remote Communication capability

### 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) 91L x44W x48H Weight (lbs.) 2830

**Deluxe:** (inches) 110L x44W x67H Weight (lbs.) 3250