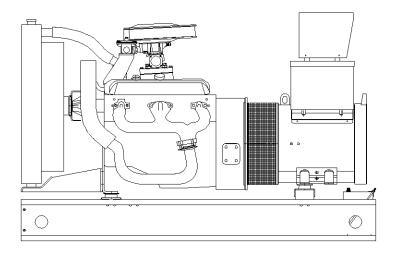


Model: AGM60Si Gas GeneratorSet



FEATURES

- Armstrong provides one-source responsibility for the generator system and its accessories.
- All units and components are factory tested during prototype and manufacturing stages assuring long product life.
- A one-year limited warranty covers all systems and components. Extended warranties are available.
- Rugged 4 cycle heavy duty gas engine, with swirl intake for better fuel consumption.

Generator features:

- Unique Volts per Hertz compensated electronic AVR excitation system delivers reliable voltage response for in rush loads.
- Brushless, rotating-field generator has low reactance, 2/3 pitch, class H insulation, minimizes voltage distortion when powering non-linear loads.

More features:

 Controllers are available to meet your most demanding applications.

GENERATOR SET RATINGS

Model	Volt Code	Voltage	Phase	Power Factor	Hz	Standby Kw / kva LPG	Prime Kw / kva LPG	Standby Kw / kva NG	Prime Kw / kva NG
AGM60Si	61	277 / 480	3	0.8	60	64 / 80	59 / 74	60 / 75	55 / 69
AGM60Si	63	127 / 220	3	0.8	60	64 / 80	59 / 74	60 / 75	55 / 69
AGM60Si	64	139 / 240	3	0.8	60	64 / 80	59 / 74	60 / 75	55 / 69
AGM60Si	65	120 / 208	3	0.8	60	64 / 80	59 / 74	60 / 75	55 / 69
AGM60Si	66	120 / 240	3	0.8	60	64 / 80	59 / 74	60 / 75	55 / 69
AGM60Si	67	120 / 240	1	1.0	60	64 / 64	59 / 59	60 / 60	55 / 55
AGM60Si	51	240 / 416	3	0.8	50	53 / 66	50 / 63	49 / 61	45 / 56
AGM60Si	53	220 / 380	3	0.8	50	53 / 66	50 / 63	49 / 61	45 / 56
AGM60Si	57	110 / 220	1	1.0	50	53 / 53	50 / 50	49 / 49	45 / 45

Stand-By ratings are continuous electrical service during the interruption of normal power. No overload capacity is specified at these ratings. Prime ratings available with variable loads are continuous, 10% overload capacity for one hour in twelve hours periods. Both ratings per BS 5514, DIN 6271, ISO-3046. Many industrial, commercial and residential voltages are available

ALTERNATOR SPECIFICATIONS

Туре	Four pole, rotating- field
Rotor Insulation	Class H
Temperature Rise	150°C Standby
Insulation Material	Class "H"High Grade Resin(VPI)
Line-To-Line Harmonic Factor (Max)	5%
Telephone Interference Factor (Tif)	1%
Voltage Regulator	Solid State
Cooling	Self-ventilated and drip proof
Bearing	1 each, Sealed
Coupling	Direct, Flexible Disc
Load Capacity (Standby)	100%
Overload Capacity (Prime)	110%
Voltage Regulation	
No Load To Full Load	± 0.25 %
One Step Load Acceptance	
Per NFPA 110	100%
-	

- Four pole, revolving field, direct coupled to engine flywheel, provides excellent alignment.
- Insulation is of class H, ready to be used on harsh environments where sea spray, sand and chemical corrosion are existing factors.
- Voltage regulator provides Volts/Hertz compensation to improve the motor starting capabilities, therefore support the engine handling transient loads.
- Dynamically balanced rotor, with damper winding, help dissipate transient voltage interference during load variations.
- ☐ The windings have a 2/3 pitch in order to reduce the harmonic content of voltage.
- Robust mechanical structure and easy access to connections.

ENGINE SPECIFICATIONS

Manufacturer	General Motors
Model	Vortec 5.7L
Bore	4.00 ln (101.6 mm)
Stroke	3.48 ln (88.4 mm)
Number Of Cylinders	V-8
Piston Displacement	350 cu.in. (5.7 L)
Compression Ratio	9.1 : 1
Combustion System	Spark Ignited
Engine Type	4 cycle
Aspiration	Natural
Piston Material	Cast Aluminum
Cylinder Head Material	Cast Iron
Crankshaft Material	Cast Nodular
Governor	Electronic Control
Frequency Regulation,	± 0.5 %
No Load To Full Load	Isochronous
Air Cleaner	Dry
_	_

- Robust industrial grade GM gas engine, for reliable endurance.
- Electronically controlled spark ignition and swirl intake ports combine for a low fuel consumption and excellent transient response.
- Cylinder Head provides superior airflow through specially designed intake manifold ports, large valves and seats resulting in superior engine performance in torque reserve, fuel consumption and emissions.
- Dynamically Balanced Crankshaft, with induction-hardened journal surfaces significantly increases wear life.
- ☐ Electronic Isochronous Governor achieves accurate frequency/speed regulation

STANDARD EQUIPMENT

ENGINE

- Air Cleaner
- Fuel DC solenoid
- Oil Pump
- Full Flow Oil Filter
- Jacket Water Pump
- Thermostat and Housing
- Exhaust Manifold, Dry
- Oil Cooler
- Blower Fan & Fan Drive
- Radiator Unit Mounted
- Electric Starting Motor 12v

- Housing & Flywheel
- Charging Alternator 12v
- Battery Kit & Battery Rack

GENERATOR

- Synchronous, Brush-less
- Four Pole
- Single Bearing
- Direct Coupled With Flex
- Class H Insulation
- Drip-Proof Construction CONTROL PANEL

- Deep Sea Model 5120

Programmable microprocessor

logic and digital display features Provides engine and

electrical metering facilities via the LCD display accesses via the SCROLL

pushbutton.

Automatic engine starting and stopping Automatic Shutdown on fault

condition
LED and LCD alarms
indication

GENERAL

- Industrial Muffler
- Rain Cap
- Lifting Points
- Acrylic Enamel Paint

INSTALLATION AND APPLICATION DATA

	Item	Units	Type of Operation a	nd Application
	Rated Speed	Rpm (Hz)	1800 (60)	1500 (50)
	Gross Engine Output	bhp (kWm)	105 (78.3)	88 (65.6)
Engine	Mean Piston Speed	Ft/min (m/min)	1044 (318)	870 (265)
	ВМЕР	psi (kPa)	118 (81	8)
	Ambient Air Temperature	°F (°C)	122 (50))
	Heat Rejection to Coolant at Rated (Full Load, Nat. GAS)	BTU/min (kW)	3120 (54.8)	2600 (45.7)
Cooling	Coolant Flow	gal/min(L/min)	31 (117.3)	26 (98.4)
System	Coolant Capacity	Gal (L)	8.3 (31.	4)
	Max. Water Pump Inlet Restriction	In.H₂O (kPa)	0.5 (0.12	25)
	Radiator Air Flow	ft ³ /min(m ³ /min)	8400 (238)	6800 (193)
Air Requirement	Combustion Air	ft ³ /min (m ³ /min)	185 (5.2)	155 (4.4)
	Air Intake Restriction	In.H ₂ O (kPa)	6 (1.49)
	Exhaust Gas Flow at Stanby Rating	ft ³ /min(m ³ /min)	580 (16.4)	480 (13.6)
Exhaust	Exhaust Temp at Standby Rating	°F (°C)	1200 (64	19)
System	Maximun Allowable back pressure	In.H₂O (kPa)	3.0 (10.	2)
	Connection Outlet Size Diameter	In. (mm)	3 (76)	
	Total Engine Oil Cap. w/ Filter(s)	qt (L)	6.5 (6.2	2)
Lubrication	Oil Pan Capacity	qt (L)	5 (4.7)	
System	Oil Filter Type		Spin-On Cartridge	
	Oil Cooler		Water cooled	
	Battery Charging Alternator	Volts, Ground	12VDC, Negative	
Engine	Baterry Charging Alternator	Rated amps	70	
Electricals	Starter Motor	Volts, Ground	12VDC, Negative	
	Recommended Battery Cold Crank	CCA amps 0°F (-18°C)	630	

FUEL CONSUMPTIONS

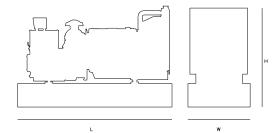
			Stby 60Hz	Prime 60Hz	Stby 50Hz	Prime 50Hz
	Fuel Consumption @ 100% Power	ft ³ /hr (m ³ /hr)	790 (22.4)	748 (21.2)	640 (18.1)	604 (17.1)
Natural	Fuel Consumption @ 75% Power	ft ³ /hr (m ³ /hr)	685 (19.4)	636 (18.0)	550 (15.6)	510 (14.4)
Gas	Fuel Consumption @ 50% Power	ft ³ /hr (m ³ /hr)	520 (14.7)	486 (13.8)	415 (11.8)	387 (11.0)
	Fuel Consumption @ 25% Power	ft ³ /hr (m ³ /hr)	350 (9.9)	335 (9.5)	275 (7.8)	263 (7.4)

			Stby 60Hz	Prime60Hz	Stby 50Hz	Prime 50Hz
			1	1		
	Fuel Consumption @ 100% Power	ft ³ /hr (m ³ /hr)	330 (9.3)	298 (8.4)	280 (7.9)	256 (7.2)
Propane	Fuel Consumption @ 75% Power	ft ³ /hr (m ³ /hr)	250 (7.1)	232 (6.6)	220 (6.2)	204 (5.8)
Gas	Fuel Consumption @ 50% Power	ft ³ /hr (m ³ /hr)	190 (5.4)	179 (5.1)	165 (4.7)	154 (4.4)
	Fuel Consumption @ 25% Power	ft ³ /hr (m ³ /hr)	135 (3.8)	130 (3.7)	110 (3.1)	105 (3.0)

AGM60Si

OPTIONAL EQUIPMENT

Cooling System	Trickle Charger	■ NFPA 110 Ready
☐ Remote Radiator	Switchgear	Remote Annunciation Pane
Jacket Water Heater	Main Line Circuit Breaker	Audible Alarm
☐ Crankcase Oil Heater	Shunt trip	General
Fuel System	Auxiliary switch	 Spring vibration isolators
☐ Fuel Filter	Automatic Transfer Switch	
Exhaust System	Paralleling	Weather Resistant
☐ Industrial Grade Muffler	Protective Relays	Sound Attenuated
☐ Residential Grade Muffler	Generator	Aluminum
☐ Critical Grade Muffler	Permanent Magnet Excitation	Interior lights AC or DC
■ Super Critical Grade Muffler	Single Phase Output Upgrade	Export Packaging
Start System	■ Space Heaters	Special Testing
■ Battery Ni-cad	Temperature Rise Detectors	□ Warranties
■ Battery Warmer Plate	Control Panel	Year
■ Battery Charger	Emergency stop button	- 04 04 0
Automatic Float Equalizing	Microprocessor Control Panel	For Other Options Consult



DIMENSIONS AND WEIGHT

	Units	Open Unit	Enclosed Unit	Sound Att. Unit
Length	In. (mm)	77.5 (1968.5)	77.5 (1968.5)	97 (2464)
Width	In. (mm)	37 (939.8)	37 (939.8)	37 (939.8)
Height	In. (mm)	40.6 (1031)	57.6 (1463)	57.6 (1463)
Weight	Lbs (kg)	2460 (1116)	2632 (1192)	2661 (1207)

General configuration for reference only, \underline{do} not use these dimensions for installation purposes. Contact your local dealer for certified drawings.

All Specifications and Materials are subject to change without prior notice.

ARMSTRONG POWER SYSTEMS

ARMSTRONG POWER SYSTEMS LLC Phone (305) 470-0058	
Fax (305) 470-0068	
Toll Free (800) 238-0732	
Address: 8254 NW 58 th St, Miami Fl 33166	
Email: sales@armstrongpower.com	
www.armstrongpower.com	