

Image used for illustration purposes only

Power Ratings				
GGW200	Standby	200 kVA/160 kW		
GGWZ00	Prime	180 kVA/144 kW		

Codes and Standards

PRAMAC products are designed to the following standards:



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

ENERGY GENERATION

PRAMAC ensures superior quality and performance by managing all aspects of production: from design to manufacturing.

PRAMAC can trace its roots back to 1966; from then onwards it has been expanding its activity in the energy and material-handling sector, continuously growing globally with a wide and flexible product range.

In the field of power generation, PRAMAC offers solutions for every kind of power supply demand: portable and industrial generators for stand by and prime power applications and mobile and towable lighting for outdoor needs.

PRAMAC operates through a wide distribution network and provides global coverage even in the most demanding markets.

50 Hz SPEC SHEET

GGW200G | 14.2L | 200kVA

INDUSTRIAL SPARK-IGNITED GENERATOR SET

PRAMAC | Power Engineering Division

STANDARD FEATURES



ENGINE SYSTEM

- Oil Drain Extension
- · Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- · Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed Only)

Fuel System

- Fuel Line NPT Connection
- · Primary and Secondary Fuel Shutoff

Cooling System

- · Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- · Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- . Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- · Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- · Separation of Circuits-High/Low Voltage
- Separation of Circuits-Multiple Breakers
- Wrapped Exhaust Piping (Enclosed Only)
- · Standard Factory Testing
- 1 Year Limited Warranty or 1,000 Hours
- Silencer Mounted in the Discharge Hood (Enclosed Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ Textured Polyester Powder Coat Paint

CONTROL SYSTEM



Digital H Control Panel—Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3-Phase Sensing Digital Voltage Regulator
- · 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- · Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
 Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- · Predictive Maintenance Algorithm
- Fredictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- · Coolant Temperature
- Coolant Level

- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm
- Engine Overspeed
- Battery Voltage
- · Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

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INDUSTRIAL SPARK-IGNITED GENERATOR SET

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CONFIGURABLE OPTIONS



ENGINE SYSTEM

- O Engine Coolant Heater
- O Air Filter Restriction Indicator
- O Stone Guard (Open Set Only)
- O Critical Exhaust Silencer (Open Set Only)

ELECTRICAL SYSTEM

O 10A Battery Charger

ALTERNATOR SYSTEM

- Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical Coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- O Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET

- O GenLink Communications Software (English Only)
- O Extended Factory Testing (3-Phase Only)
- O Pad Vibration Isolators

ENCLOSURE

- O Weather Protected Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- O Aluminum Enclosure
- O Up to 321 KMH Wind Load Rating*
- O AC/DC Enclosure Lighting Kit
- O Door Open Alarm Switch

CONTROL SYSTEM

- 21-Light Remote Annunciator
- O Remote Relay Assembly (8 or 16)
- Oil Temperature Indicator with Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Modem
- O 10A Run Relay

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant Heater Ball Valves
- O Fluid Containment Pan

ALTERNATOR SYSTEM

O 3rd Breaker System

CONTROL SYSTEM

- O Spare Inputs (x4) / Outputs (x4)
- O Battery Disconnect Switch

GENERATOR SET

- Special Testing
- O Battery Box

^{*}Contact factory for availability.

GGW200G | 14.2L | 200kVA

INDUSTRIAL SPARK-IGNITED GENERATOR SET

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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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Make	Generac
Cylinder #	6
Туре	Inline
Displacement – L (in ³)	14.2 (864.7)
Bore – mm (in)	135 (5.31)
Stroke – mm (in)	165 (6.50)
Compression Ratio	9.5:1
Intake Air Method	Turbocharged/Aftercooled
Number of Main Bearings	7
Connecting Rods	Carbon Steel
Cylinder Head	Cast Iron GT250, OHV
Cylinder Liners	Ductile Iron
Ignition	Electronic
Piston Type	Aluminum
Crankshaft Type	Ductile Iron
Lifter Type	Solid
Intake Valve Material	Special Heat-Resistant Steel
Exhaust Valve Material	High Temp Steel Alloy
Hardened Valve Seats	High Temp Steel Alloy
Engine Governing	

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear	
Oil Filter Type	Full-Flow Spin-On Cartridge	
Crankcase Capacity – L (gt)	34.3 (36.2)	

Cooling System

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Speed – rpm	1,581
Fan Diameter – mm (in)	762 (30)

Fuel System

Fuel Type	Natural Gas, Liquid Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard (Dual)
Operating Fuel Pressure – kPa (in H ₂ O)	1.7–2.7 (7–11)

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 10000016949
Battery Voltage	(2) - 12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Generac 520 mm			
Poles	4			
Field Type	Revolving			
Insulation Class - Rotor	Н			
Insulation Class - Stator	Н			
Total Harmonic Distortion	<5%			
Telephone Interference Factor (TIF)	<50			

Standard Excitation	Permanent Magnet			
Bearings	Sealed Ball			
Coupling	Direct via Flexible Disc			
Prototype Short Circuit Test	Yes			
Voltage Regulator Type	Full Digital			
Number of Sensed Phases	All			
Regulation Accuracy (Steady State)	±0.25%			

Hz SPEC SHEET

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OPERATING DATA

POWER RATINGS

	Natural Gas			Liquid Propane Vapor					
	Stand	lby	Prir	me	Stand	dby	Pr	ime	
Three-Phase 231/400 VAC @0.8pf	250 kVA/200 kW	Amps: 361	225 kVA/180 kW	Amps: 325	150 kVA/120 kW	Amps: 216	135 kVA/108 kW	Amps: 194	

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

231/400	VAC
201/100	W/ 10

Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	250	218	328	437	546	656	765
Upsize 1	300	251	377	502	628	754	879

FUEL CONSUMPTION RATES*

Natural Gas – m³/hr (ft³/hr)

Liquid Propane Vapor – m³/hr (ft³/hr)

Percent Load	Standby	Prime
25%	26.6 (940)	23.9 (846)
50%	45.6 (1,611)	41.0 (1,450)
75%	61.6 (2,175)	55.4 (1,958)
100%	76.0 (2,685)	68.4 (2,417)

Percent Load	Standby	Prime
25%	6.0 (213)	5.4 (192)
50%	12.4 (437)	11.2 (393)
75%	17.0 (601)	15.3 (541)
100%	21.4 (758)	19.3 (683)

COOLING

		Standby	Prime
Air Flow (Inlet Air Combustion and Radiator)	m³/min (ft³/min)	228.3 (8,062)	228.3 (8,062)
Coolant Flow	L/min (gal/min)	144 (38)	144 (38)
Coolant System Capacity	L (gal)	54.9 (14.5)	54.9 (14.5)
Heat Rejection to Coolant	kW (BTU/hr)	207.9 (709,383)	187.1 (638,445)
Maximum Operating Ambient Temperature	°C (°F)	50 (122)	50 (122)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin 1000001131	9
Maximum Radiator Backpressure	kPa (in H ₂ 0)	0.12 (0.5)	0.12 (0.5)

COMBUSTION AIR REQUIREMENTS - NATURAL GAS

	Standby	Prime	
Flow at Rated Power – m ³ /min (cfm)	10.0 (354)	9.0 (318.6)	-

ENGINE			EXHAUST						
		Standby (NG)	Prime (NG)	Standby (LPV)	Prime (LPV)			Standby	Prime
Rated Engine Speed	rpm	1,500	1,500	1,500	1,500	Exhaust Flow (Rated Output)	m ³ /min (cfm)	35.4 (1,250)	31.9 (1,125)
Horsepower at Rated kW	hp	362	326	190	171	Max. Allowable Backpressure	kPa (inHg)	2.54 (0.75)	2.54 (0.75)
Piston Speed	m/min (ft/min)	450 (1,477)	450 (1,477)	475 (1,559)	475 (1,559)	Exhaust Temp (Rated Output - Post Silencer)	°C (°F)	723 (1,334)	651 (1,201)
BMEP	kPa (psi)	1,524 (221)	1,372 (199)	669 (97)	593 (86)				

Deration – See Bulletin 10000011339 Standby – See Bulletin 10000018933 Prime – See Bulletin 10000018926

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^{*} Fuel supply installation must accommodate fuel consumption rates at 100% load.

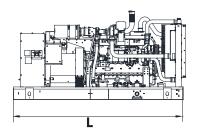
GGW200G | 14.2L | 200kVA

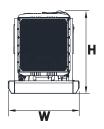
INDUSTRIAL SPARK-IGNITED GENERATOR SET

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DIMENSIONS AND WEIGHTS*

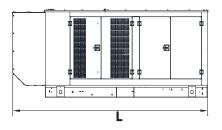


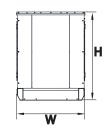




OPEN SET (Includes Exhaust Flex)

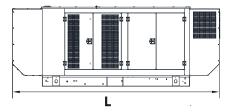
L x W x H – mm (in)	3,455 (136.0) x 1,463 (57.6) x 1,724 (67.9)
Weight - kg (lbs)	2,736 (6,031)

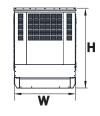




STANDARD ENCLOSURE

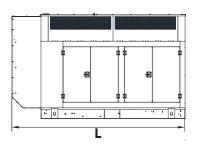
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L x W x H – mm (in)	4,437 (174.9) x 1,460 (57.5) x 1,976 (77.8)				
Weight – kg (lbs)	Steel: 3,445 (7,596) Aluminum: 3,085 (6,081)				

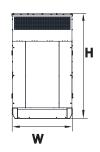




LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H – mm (in)	5,085 (200.2) x 1,460 (57.5) x 1,976 (77.8)
Weight – kg (lbs)	Steel: 3,655 (8,059) Aluminum: 3,175 (7,000)





LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H – mm (in)	4,588 (180.7) x 1,460 (57.5) x 2,725 (107.3)
Weight – kg (lbs)	Steel: 3,158 (6,962) Aluminum: 3,287 (7,247)

^{*} Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a PRAMAC Industrial Dealer for detailed installation drawings.