



*Built in the USA using domestic and foreign parts

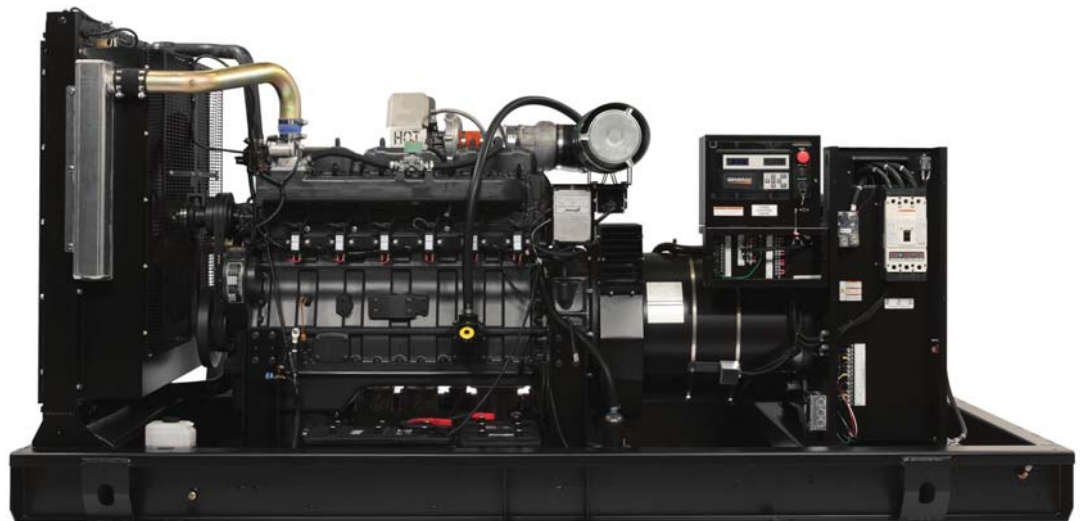


Image used for illustration purposes only

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

ENERGY GENERATION

PRAMAC represents a solid industrial reality, covering all aspects of production from manufacturing to commercialization.

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 either for stand by and prime power applications and solutions for outdoor needs, such as mobile and towable lighting.

GGW200G | 14.2L | 200kVA
INDUSTRIAL SPARK-IGNITED GENERATOR SET
 Pramac | Power Engineering Division



STANDARD OPTIONS

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & 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
- Brushless 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 1000 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
- Rhino Coat™ - 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
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total & 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 & Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)



CONFIGURABLE OPTIONS

ENGINE SYSTEM

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

ELECTRICAL SYSTEM

- 10A Battery Charger

ALTERNATOR SYSTEM

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

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

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

ENCLOSURE

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

CONTROL SYSTEM

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

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

ALTERNATOR SYSTEM

- 3rd Breaker System

CONTROL SYSTEM

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

GENERATOR SET

- Special Testing
- Battery Box

ENCLOSURE

- Motorized Dampers

RATING DEFINITIONS

Standby - Consult PRAMAC

*Consult factory for availability



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	PRAMAC
Cylinder #	6
Type	In-line
Displacement - L (Cu In)	14.17 (864.71)
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	Altronic CD1
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

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - L (qts)	34.3 (36.2)

ALTERNATOR SPECIFICATIONS

Standard Model	PRAMAC 520
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3 Phase)
Telephone Interference Factor (TIF)	<50

Cooling System

Cooling System Type	Pressurized Closed Recovery
Water Pump Flow - gal/min (l/min)	92 (348)
Fan Type	Pusher
Fan Speed (rpm)	1581
Fan Diameter - mm (in)	762 (30)

Fuel System

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

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	(2) 12 VDC
Ground Polarity	Negative

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

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OPERATING DATA

POWER RATINGS

	Natural Gas	Liquid Propane Vapor
Single Phase 110/220 VAC @1.0pf	160 kVA/ 160 kW Amps: 727	120 kVA/ 120 kW Amps: 545
Three Phase 231/400 VAC @0.8pf	200 kVA/ 160 kW Amps: 289	150 kVA/ 120 kW Amps: 216

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

231/400 VAC								110/220 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%	Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	200	155	232	310	388	465	542	Standard	200	92	138	183	229	275	321
Upsize 1	250	218	328	437	546	656	765	Upsize 1	-	-	-	-	-	-	-
Upsize 2	300	251	377	502	628	754	879	Upsize 2	-	-	-	-	-	-	-

FUEL CONSUMPTION RATES*

Natural Gas – ft ³ /hr (m ³ /hr)		Liquid Propane Vapor – ft ³ /hr (m ³ /hr)	
Percent Load	Standby	Percent Load	Standby
25%	810 (22.9)	25%	212.86 (6.02)
50%	1389 (39.3)	50%	437.14 (12.38)
75%	1875 (53.1)	75%	600.59 (17.01)
100%	2314 (65.5)	100%	758.4 (21.47)

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

COOLING

		Standby
Air Flow (inlet air combustion and radiator)	ft ³ /min (m ³ /min)	7546 (213.6)
Coolant Flow per Minute	gal/min (l/min)	88 (333)
Coolant System Capacity	gal (l)	10.5 (39.7)
Heat Rejection to Coolant	BTU/hr (kW)	603,252 (176.8)
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.50 (0.12)

COMBUSTION AIR REQUIREMENTS

	Natural Gas	Liquid Propane Vapor
Flow at Rated Power cfm (m ³ /min)	337 (9.5)	272 (7.7)

ENGINE

		Natural Gas	Liquid Propane Vapor
Rated Engine Speed	rpm	1500	1500
Horsepower at Rated kW**	hp	243	190
Piston Speed	ft/min (m/min)	1477 (450)	1477 (450)
BMEP	psi	148	116

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m ³ /min)	1169 (33.1)
Max. Allowable Backpressure	inHg (kPa)	0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1273 (689)
Exhaust Outlet Size (Open Set)	mm (in)	3.5 (88.9) I.D. Flex (No Silencer)

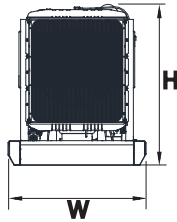
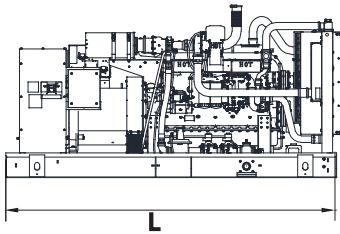
** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

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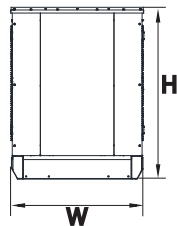
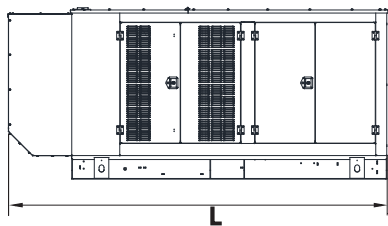


DIMENSIONS AND WEIGHTS*



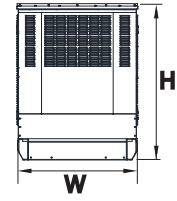
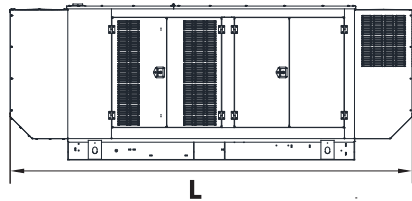
OPEN SET (Includes Exhaust Flex)

L x W x H (in (mm))	128 (3250) x 53.4 (1357) x 62.3 (1583)
Weight lbs (kg)	5442 (2469)



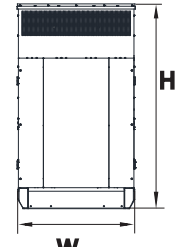
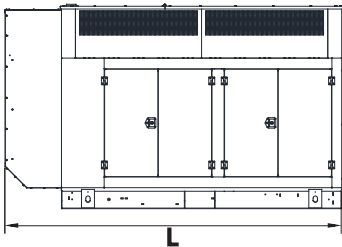
STANDARD ENCLOSURE

L x W x H (in (mm))	154.4 (3909) x 54 (1371) x 69.8 (1772)
Weight lbs (kg)	Steel: 6422 (2913) Aluminum: 5956 (2702)



LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H (in (mm))	179.9 (4569) x 54 (1371) x 69.8 (1772)
Weight lbs (kg)	Steel: 6726 (3051) Aluminum: 6087 (2761)



LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H (in (mm))	154.45 (3922.9) x 54 (1371) x 93.3 (2370)
Weight lbs (kg)	Steel: 6962 (3158) Aluminum: 6188 (2807)