



\*Built in the USA using domestic and foreign parts



Image used for illustration purposes only

Power Ratings*		
GGW150	Standby	150kVA/120kW

## 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.

# GGW150G | 9.0L | 150kVA 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)

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## CONFIGURABLE OPTIONS

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### 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

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### 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

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Standby - Consult PRAMAXC

\*Consult factory for availability



**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General

Make	Generac
Cylinder #	8
Type	V
Displacement - L (Cu In)	8.9L (540)
Bore - mm (in)	114.23 (4.49)
Stroke - mm (in)	107.15 (4.25)
Compression Ratio	10.5:1
Intake Air Method	Natural Aspirated
Number of Main Bearings	5
Connecting Rods	Forged
Cylinder Head	Cast Iron
Cylinder Liners	No
Ignition	High Energy
Piston Type	Aluminum Alloy
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic Roller
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	Yes

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 (qts)	8.5 (8.0)

**ALTERNATOR SPECIFICATIONS**

Standard Model	Generac 520 mm
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)	26 (98)
Fan Type	Pusher
Fan Speed (rpm)	1942
Fan Diameter - mm (in)	558 (22)

Fuel System

Fuel Type	Natural Gas, Propane
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard (Dual)
Operating Fuel Pressure (Standard)	7-11 (1.7-2.7)

Engine Electrical System

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

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

**GGW150G | 9.0L | 150kVA**  
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**OPERATING DATA**

**POWER RATINGS**

	Standby	Propane Vapor
Single Phase 110/220 VAC @1.0pf	115 kVA/ 192 kW Amps: 523	107 kVA/ 86 kW Amps: 487
Three Phase 231/400 VAC @0.8pf	150 kVA/ 120 kW Amps: 217	140 kVA/ 86 kW Amps: 203

**STARTING CAPABILITIES (sKVA)**

sKVA vs. Voltage Dip

231/400 VAC								110/220 VAC							
Alternator	kVA	10%	15%	20%	25%	30%	35%	Alternator	kVA	10%	15%	20%	25%	30%	35%
Standard	150	110	165	220	276	330	385	Standard	150	65	98	130	163	196	228
Upsize 1	175	155	232	310	388	465	542	Upsize 1	175	92	138	183	229	275	321
Upsize 2	200	155	232	310	388	465	542	Upsize 2	200	92	138	183	229	275	321

**FUEL CONSUMPTION RATES\***

Natural Gas – ft <sup>3</sup> /hr (m <sup>3</sup> /hr)			Liquid Propane Vapor – ft <sup>3</sup> /hr (m <sup>3</sup> /hr)		
Percent Load	Standby		Percent Load	Standby	
25%	363.5 (10.3)		25%	183.3 (5.2)	
50%	760.8 (21.6)		50%	306.8 (8.7)	
75%	1100.5 (31.2)		75%	421.8 (11.9)	
100%	1438.4 (40.8)		100%	532.8 (15.1)	

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

**COOLING**

	Standby
Air Flow (inlet air combustion and radiator)	ft <sup>3</sup> /min (m <sup>3</sup> /min) 4638 (131.4)
Coolant Flow per Minute	gpm (lpm) 21 (79)
Coolant System Capacity	gal (l) 6.0 (22.7)
Heat Rejection to Coolant	BTU/hr (kW) 330,000 (97)
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa) 0.50 (0.12)

**COMBUSTION AIR REQUIREMENTS**

Standby
Flow at Rated Power cfm (m <sup>3</sup> /min) 356.7 (10.1)

**ENGINE**

Natural Gas		
Rated Engine Speed	rpm	1500
Horsepower at Rated kW**	hp	192
Piston Speed	ft/min (m/min)	1062 (324.2)
BMEP	psi	156

**EXHAUST**

Standby	
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min) 1290 (36.5)
Max. Allowable Backpressure	inHg (kPa) 0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C) 972 (525)
Exhaust Outlet Size (Open Set)	mm (in) 3.0 (76.2) I.D. Flex (No Silencer)

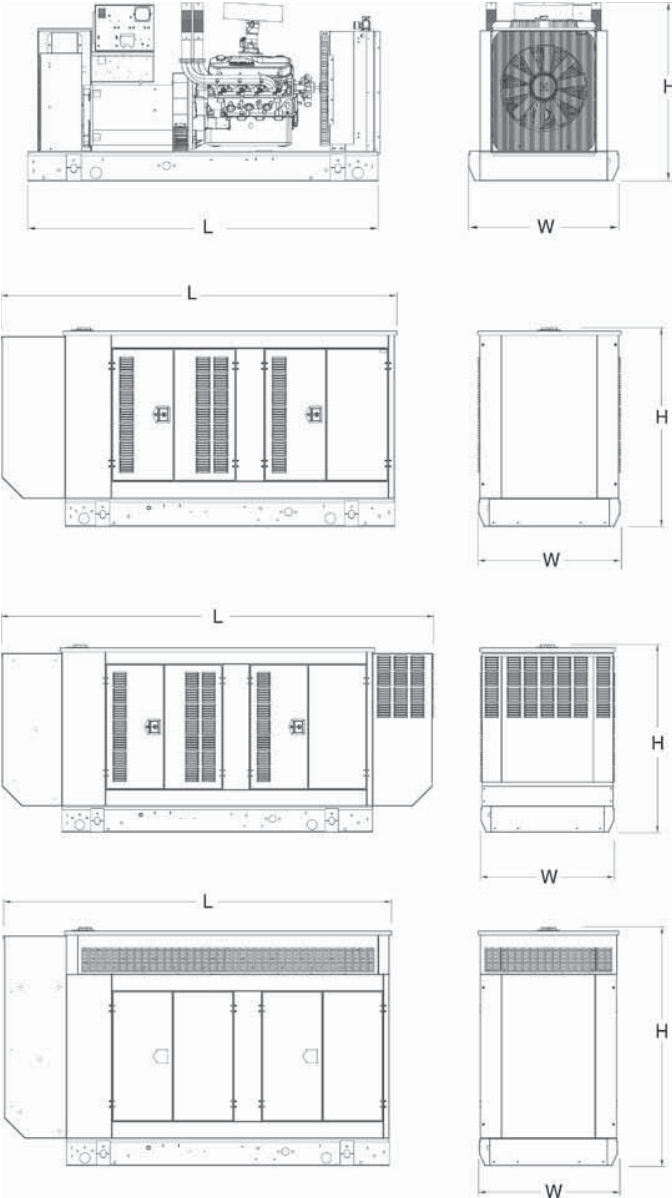
\*\* Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

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.

**GGW150G** | 9.0L | 150kVA  
**INDUSTRIAL SPARK-IGNITED GENERATOR SET**  
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**DIMENSIONS AND WEIGHTS\***



**OPEN SET (Includes Exhaust Flex)**

L x W x H (in (mm))	94.2 (2394) x 40 (1016) x 47.5 (1206)
Weight lbs (kg)	2064 (936.2)

**STANDARD ENCLOSURE**

L x W x H (in (mm))	111.79 (2839.5) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 2708 (1228) Aluminum: 2413 (1094)

**LEVEL 1 ACOUSTIC ENCLOSURE**

L x W x H (in (mm))	129.42 (3287.2) x 40.46 (1027.8) x 56.18 (1427)
Weight lbs (kg)	Steel: 2798 (1269.2) Aluminum: 2355 (1068)

**LEVEL 2 ACOUSTIC ENCLOSURE**

L x W x H (in (mm))	111.81 (2840) x 40.46 (1027.8) x 68.61 (1742.8)
Weight lbs (kg)	Steel: 3022 (1370.8) Aluminum: 2431 (1103)