



POWER RATINGS		
GGW750G	STANDBY	750 kVA / 600 kW
	PRIME	675 kVA / 540 kW

**Designed to the following standards:** Ratings definition according to standard ISO8528 1:2005. Ambient conditions 1000mbar, 25°C, 30% relative humidity.

**ESP - Emergency Standby Power:** Maximum power with varying load that the generator is capable to supply in the event of a utility power outage or under routine exercise conditions for up to 200 h of operation per year with the maintenance intervals as prescribed by the manufacturer. Permissible average power over 24 h shall not exceed 70 % of rated power ESP.

**PRP - Prime Power:** Maximum power, which a generating set, is capable of delivering continuously with varying load for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of rated Prime Power. 10% of overload is allowed for emergency use for a maximum of 1 hour in 12 with the limit of 25 hours per year.

### Codes And Standards

PRAMAC products are designed to the following standards:



BS 5514 and 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC 700, 701, 702, 708



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

### 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 on, 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 standby and prime power applications, as well as mobile and towable lighting for outdoor needs.

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

## STANDARD FEATURES

### ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory-Filled Oil And Coolant
- Industrial Exhaust Silencer
- Air Filter restriction indicator

### Fuel System

- Primary And Secondary Fuel Shutoff
- Fuel Line NPT Connection

### Cooling System

- Close Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

### Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Solenoid Activated Starter Motor

### ALTERNATOR SYSTEM

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Auxiliary Winding Excitation System
- Sealed Bearing
- Amortisseur Winding
- Full-Load Capacity Alternator

### GENERATOR SET

- Internal Gen-set Vibration Isolation
- Wrapped Exhaust Piping (Enclosed Only)
- Bottom (floor) power cable outlet
- Exhaust silencer Mounted in the Discharge Hood (Enclosed Sets)

### ENCLOSURE (if selected)

- High-Performance Sound Absorbing Material
- Gasketed Doors
- Galvanized Sheet Metal Construction
- Upward Facing Discharge Hood (exhaust)
- Stainless Steel Hinges

## CONTROL SYSTEM



### PowerZone 7" touchscreen

#### Program Functions

- Programmable Crank Limiter
- 7-Day programmable Exerciser
- RS232/485 Communications
- LAN Communication
- 3-Phase Sensing Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (event Log)
- Isochronous Governor Control
- Audible Alarms and Shutdown
- AMF Capability
- E-Stop Button (Mushroom)

- Customizable Alarms, Warnings, Events
- Modbus Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- Alarm Information Automatically Announced on the Touchscreen Display

#### Full System Status Display

- Power Output (kW)
- Power Factor Cos( $\phi$ )
- kWh Total and Last Run
- Active/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 Over-speed
- Battery Voltage
- Alarms and Warnings Times and Date Stamped
- Snap Shot of key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
- Multilingual

## OPTIONAL FEATURES

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### ENGINE SYSTEM

- Engine Block Heater (convection type)
- Engine Block Heater (forced circulation)
- 3-Way Catalytic Muffler

### ALTERNATOR SYSTEM

- Upsized Alternator
- Anti-Condensation Heaters
- Permanent Magnet (PMG)

### CIRCUIT BREAKER OPTIONS

- 4-pole Circuit Breaker
- Differential Protection

### CONTROL SYSTEM

- Remote Connection Kit with Antenna
- Modular Parallel Panel with MCCB upgrade

### ENCLOSURE

- Special Color Requirements

## ENGINEERED OPTIONS

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### ENGINE SYSTEM

- Engine Battery Warmer
- Heavy-Duty Air Filters
- Synthetic Media Oil Filters

### ELECTRICAL SYSTEM

- ATS With Transfer Inhibition
- Load Shedding control
- 20 Amp Battery Charger

### ALTERNATOR SYSTEM

- 2 Size Up Alternator
- Tropical Coating
- Thermistors Temperature Sensors
- Thermocouple PT-100 Temperature Sensors

### CIRCUIT BREAKER OPTIONS

- Special Bus-bars Connections

### GENERATOR SET

- Spring vibration Isolators
- Extended Containment Tray With Leak Detector

### ENCLOSURE

- Motorized Louvers
- Sand Traps on Intake Vents
- Non-Standard Sheet Metal
- Containerized Option
- Special Sound Requirements

### CONTROL SYSTEM

- Special Firmware Programming
- Non-Standard Language
- Communication Programming



**APPLICATION ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

**General**

Make..... GENERAC  
 Cylinder # ..... 12  
 Type ..... V  
 Displacement [L]..... 33.9  
 Bore [mm]..... 150  
 Stroke [mm]..... 160  
 Compression Ratio..... 10:1  
 Intake Method..... Turbocharged/After-cooled  
 N. of Bearings..... 7  
 Connecting Rods..... Steel Alloy  
 Cylinder Head..... Cast Iron 4 valve  
 Ignition..... Electric  
 Piston Type ..... Aluminum Alloy  
 Crankshaft Type ..... Forged Steel Alloy  
 Lifter Type ..... Solid  
 Intake Valve Material..... SUH3 with Tuftride  
 Exhaust Valve Material. SUH3 with Tuftride and Stellite  
 Hardened Valve Seats..... Proprietary Alloy

**Engine Governing**

Governor ..... Electronic  
 Frequency Regulation (steady state)..... ±0,25%

**Lubrication System**

Oil Pump..... Gear  
 Oil Filter Type ..... Cartridge  
 Crankcase Capacity [L] ..... 100

**Cooling System**

Cooling System Type ..... Unit Mounted Radiator  
 Fan Type ..... Pusher  
 Fan Diameter [mm]..... 1 354

**Fuel System**

Fuel Type ..... Natural Gas  
 Carburetor ..... Down Draft  
 Secondary Fuel Regulator..... Standard  
 Fuel Shutoff Solenoid ..... Standard (Dual)  
 Operating Fuel Pressure [kPa] ..... 2.5-5

**Engine Electrical System**

System Voltage ..... 24V DC  
 Battery Charger Alternator..... Standard  
 Battery Size ..... See Bulletin  
 Battery Voltage..... 4 x 12 VDC  
 Ground Polarity ..... Negative

**ALTERNATOR SPECIFICATIONS**

Standard Model ..... Leroy Sommer  
 Poles ..... 4  
 Field type..... Revolving  
 Insulation Class (Rotor) ..... H  
 Insulation Class (Stator) ..... H  
 Total Harmonic Distortion (THD) ..... <5%  
 Telephone Interference Factor (TIF) ..... <50

Standard Excitation ..... PMG  
 Bearings ..... Single Bearing  
 Coupling ..... Direct via Flexible Disc  
 Sustained Short Circuit Current..... 300% (10s)  
 Number of Sensed Phases..... All  
 Regulation Accuracy..... ±0.25%

## OPERATING DATA

### POWER RATINGS

	Standby	Prime
Three Phase 400 / 231 V AC @ PF=0,8	750 kVA / 600 kW Amps: 1082	675 kVA / 540 kW Amps: 974

### TRANSIENT PERFORMANCES

	Class	G2
Performance Class (ISO8528-5) *		
Rated Power	kW	600
First Step (ISO8528-, based on BMEP)	%	55.7

\* ISO 8528-5:2013 states G2 Performance class transient frequency deviation from rated frequency for a sudden power increase should be  $\leq -20\%$  of rated frequency for spark-ignition gas engines per Table 4 note e).

### FUEL CONSUMPTION RATES\*

Percent Loads (ESP)	m <sup>3</sup> /h
50%	104
75%	134
100%	174

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

### COOLING

		Standby	Prime
Air Flow (Combustion and Cooling)	m <sup>3</sup> /min	962.8	Contact Factory
Coolant Flow	l/min	1101	1101
Coolant System Capacity	L	208	208
Maximum Operating Ambient Temperature	°C	50	50
Maximum Operating Ambient Temperature (before de-rate)		Consult Factory	
Maximum Radiator Backpressure	kPa	0,12	0,12

### COMBSUTION AIR REQUIREMENT

	Standby	Prime
Flow at Rated Power – m <sup>3</sup> /min	39.5	Contact Factory

### ENGINE

		Standby
Rated Engine Speed	rpm	1500
Horsepower at rated rpm	bHp	841

### EXHAUST

		Standby	Prime
Exhaust Flow	M <sup>3</sup> /min	1240	n/a
Max. Backpressure	kPa	6.72	n/a

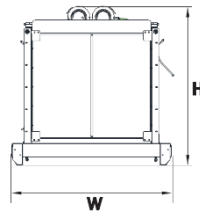
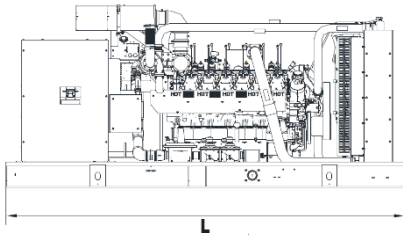
PRELIMINARY

**GGW750G | 33.9L | 750kVA**  
**INDUSTRIAL SPARK IGNITED GENERATOR SET**  
 PRAMAC | Power Engineering Division



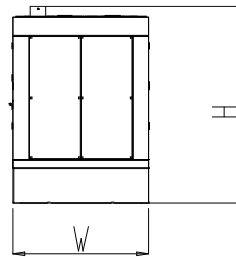
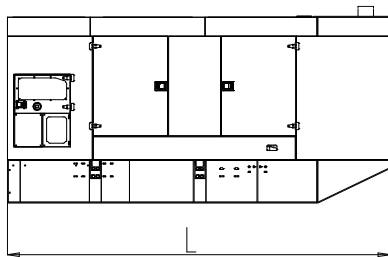
Piston Speed	m/s	n/a	Exhaust Temp.	°C	626	n/a
BMEP	kPa	n/a				

**OPERATING DATA**



**OPEN SET (Includes Exhaust Flex)**

L x W x H - mm	4375 x 2110 x 2638
Weight - Kg	Tbd



**STANDARD ENCLOSURE**

L x W x H - mm	6533 x 2110 x 2981
Weight - Kg	9000