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Image used for illustration purposes only

Power Ratings				
GGW070	Standby	70 kW/88 kVA		
660070	Prime	63 kW/79 kVA		

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.



BS5514 and DIN 6271



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 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.

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STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Critical Silencer
- Oil Temperature Sender with Alarm
- Air Filter Restriction Indicator

FUEL SYSTEM

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

COOLING SYSTEM

- Closed 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
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- GENprotect[™]
 - Class H Insulation Material
- 2/3 Pitch

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- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- 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



Power Zone[®] Pro Controller

- NFPA 110 Level 1 Compliant
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- Multiple Programmable Inputs and Outputs
- Remote Display Capability
- Remote Communication via Modbus[®] RTU, Modbus TCP/IP, and Ethernet 10/100
- · Alarm and Event Logging with Real Time Stamping

- Expandable Analog and Digital Inputs and Outputs
- Remote Wireless Software Update Capable
- Wi-Fi[®], Bluetooth[®], BMS, and Remote Telemetry
- Built-In Programmable Logic Eliminates the Need for
- External Controllers Under Most Conditions
 Programmable I/O Channel Properties
- Built-In Diagnostics

Alarms and Warnings

- High/Low Oil Pressure
- High/Low Coolant Level
- High/Low Coolant Temperature
- Sender/Sensor Failure
- High/Low Oil Temperature
- Over Total kW
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over Current
- High/Low Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I²T Algorithm)

4.3 Inch Color Touch Screen Display

- Resistive Color Touch Screen
- Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters
- Key Function Monitoring
- Three Phase Voltage, Amperage, kW, kVA, and kVAr
- Selectable Line to Line or Line to
- Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Battery Voltage

Diagnostics

- Hourmeter
- Warning and Alarm Indication

Maintenance Events/Information

60 Hz SPEC SHEET

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CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Heater with Shutoff Valves
- Engine Coolant Heater
- O Oil Heater
- $\,\circ\,\,$ Level 1 Fan and Belt Guards (Enclosed Units Only)
- Radiator Duct Adapter (Open Set Only)
- Two-Stage Heavy Duty Air Cleaner

ELECTRICAL SYSTEM

- 10A Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O 3rd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

FUEL SYSTEM

NPT Flexible Fuel Line

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
- O 8 Position Load Center
- Spring or Pad Vibration Isolators

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heaters (with Motorized Dampers Only)
- Door Open Alarm Horn
- IBC Seismic Certified
- OSHPD Seismic Certified

CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- $\circ~$ Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- Ground Fault Annunciator
- 120V GFCI and 240V Outlets
- 100 dB Alarm Horn
- Damper Alarm Contacts (with Motorized Dampers Only)
- Wi-Fi Extension Kit

ENGINEERED OPTIONS

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

CONTROL SYSTEM

- **GENERATOR SET**
- Special Testing
- Battery Box

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APPLICATION AND ENGINEERING DATA



ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	4
Туре	In-Line
Displacement - in ³ (L)	275.0 (4.5)
Bore - in (mm)	4.5 (114.3)
Stroke - in (mm)	4.25 (107.95)
Compression Ratio	9.1:1
Intake Air Method	Turbocharged
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

	run non opni on ouringo
Crankcase Capacity - qt (L)	21 (20)
Cooling System	
Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed - RPM	1,750
Fan Diameter - in (mm)	22 (533)
Fuel System	
Fuel Type	Natural Gas, Propane
Fuel Shut Off	Dual
NG Operating Fuel Pressure - in H ₂ O (kPa)	5 - 14 (1.2 - 3.5)
Propane Operating Fuel Pressure - in H ₂ O (kPa)	7 - 14 (1.7 - 3.5)
Engine Electrical System	
System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 10000016949

Gear Driving

Full Flow Spin-On Cartridge

Lubrication System

Oil Pump Type

Oil Filter Type

Battery Voltage

Ground Polarity

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

±	0	.2

ALTERNATOR SPECIFICATIONS

Standard Model	K0060124Y21	Standard Excitation	Synchro
Poles	4	Bearings	Sealed B
Field Type	Revolving	Coupling	Direct via
Insulation Class - Rotor	Н	Prototype Short Circuit Test	Yes
Insulation Class - Stator	Н	Voltage Regulator Type	Full Digit
Total Harmonic Distortion	<5% (3-Phase Only)	Number of Sensed Phases	All
Telephone Interference Factor (TIF)	<50	Regulation Accuracy (Steady State)	±0.25%

Standard Excitation	Synchronous Brushless
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%

12 VDC

Negative

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OPERATING DATA



POWER RATINGS

	St	andby	P	Prime		
Single-Phase 120/240 VAC @1.0pf	70 kW/70 kVA	Amps: 292	63 kW/63 kVA	Amps: 263		
Three-Phase 120/208 VAC @0.8pf	70 kW/88 kVA	Amps: 243	63 kW/79 kVA	Amps: 219		
Three-Phase 120/240 VAC @0.8pf	70 kW/88 kVA	Amps: 211	63 kW/79 kVA	Amps: 190		
Three-Phase 277/480 VAC @0.8pf	70 kW/88 kVA	Amps: 105	63 kW/79 kVA	Amps: 95		
Three-Phase 346/600 VAC @0.8pf	70 kW/88 kVA	Amps: 84	63 kW/79 kVA	Amps: 76		

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip						
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%	
A0080124Y21	58	K0080124Y21	172	K0080124Y21	132	
A0100124Y21	67	K0100124Y21	227	K0100124Y21	171	

FUEL CONSUMPTION RATES*

Natura	al Gas – scfh (m³/hr)	Propane	ane Vapor – scfh (m³/hr) Propane Liquid – gph (Lph)		Propane Liquid – gph (Lph)		
Percent Load	Standby	Prime	Percent Load	Standby	Prime	Percent Load	Standby	Prime
25%	261 (7.4)	240 (6.8)	25%	80 (2.3)	69 (2.0)	25%	2.5 (9.6)	2.3 (8.7)
50%	475 (13.5)	431 (12.2)	50%	180 (5.1)	160 (4.5)	50%	5.1 (19.1)	4.6 (17.4)
75%	697 (19.7)	630 (17.8)	75%	270 (7.6)	245 (6.9)	75%	7.6 (28.7)	6.9 (26.1)
100%	928 (26.3)	835 (23.6)	100%	350 (9.9)	320 (9.1)	100%	10.1 (38.3)	9.2 (34.8)

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

COOLING

		Standby	Prime
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m³/min)	4,343 (123)	4,343 (123)
Coolant Flow	gpm (Lpm)	23.9 (90.5)	23.9 (90.5)
Coolant System Capacity	gal (L)	8.9 (33.7)	8.9 (33.7)
Maximum Operating Ambient Temperature	°F (°C)	120 (50)	120 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No	. 10000011339
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

				Standby	Prime			
	Flow at	t Rated Power ·	- cfm (m ³ /min)	157 (4.4)	142 (4.0))		
ENGINE				EXHAUST				
		Standby	Prime				Standby	Prime
Rated Engine Speed	RPM	1,800	1,800	Exhaust Flow (Rated Output)		cfm (m³/min)	390 (11.0)	350 (9.9)
Horsepower at Rated kW	hp	113	102	Maximum Allowable Exhaust Backp (Post Silencer)	pressure	inHg (kPa)	0.75 (2.54)	0.75 (2.54)
Piston Speed	ft/min (m/min)	1,275 (389)	1,275 (389)	Exhaust Temperature (Rated Outpu	it)	°F (°C)	1,362 (739)	1,340 (727)
BMEP	psi (kPa)	188 (1,296)	170 (1,172)					

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

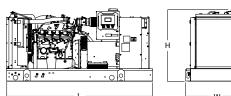
Please contact a Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB

Prime - See Bulletin 0187510SSB

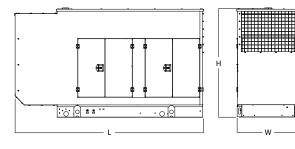
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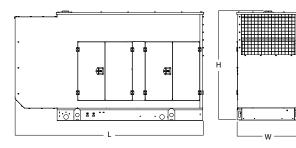
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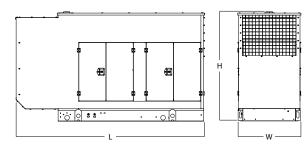
DIMENSIONS AND WEIGHTS*











OPEN SET L x W x H - in (mm)

Weight - Ibs (kg)

WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	120.8 (3,068) x 40.5 (1,028) x 69.0 (1,754)
Weight - Ibs (kg)	Steel: 2,705 - 2,717 (1,227 - 1,232) Aluminum: 2,353 - 2,365 (1,068 - 1,073)

92.9 (2,360) x 39.9 (1,014) x 46.0 (1,170)

1,967-1,978 (982 - 897)

LEVEL 1 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	94.8 (2,408) x 38.0 (965) x 57.5 (1,461)
Weight - Ibs (kg)	Steel: 2,796 - 2,808 (1,268 - 1,274) Aluminum: 2,444 - 2,456 (1,109 - 1,114)

LEVEL 2 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	94.8 (2,408) x 38.0 (965) x 57.5 (1,461)
Weight - Ibs (kg)	Steel: 2,874 - 2,886 (1,304 - 1,309) Aluminum: 2,505 - 2,513 (1,135 - 1,140)

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

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