Protector® QS Series

GENERAC

PROTECTOR[®] QS SERIES Standby Generators Liquid-Cooled Gaseous Engine

INCLUDES:

- Two-Line LCD Multilingual Digital Evolution[™] Controller (English/Spanish/ French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- True Power™ Electrical Technology
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 5 Year Limited Warranty
- UL 2200 Listed
- Capability to be installed within 18" (457) mm of a building*

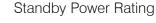
*Only if located away from doors, windows, and fresh air intakes, and unless otherwise directed by local codes.

FEATURES

INNOVATIVE DESIGN & PROTOTYPE TESTING are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.

O TEST CRITERIA:

- PROTOTYPE TESTED
- SYSTEM TORSIONAL TESTED
- NEMA MG1-22 EVALUATION
 MOTOR STARTING ABILITY



Model RG022 (Aluminum - Bisque) - 22 kW 60 Hz
Model RG027 (Aluminum - Bisque) - 27 kW 60 Hz
Model RG032 (Aluminum - Bisque) - 32 kW 60 Hz
Model RG038 (Aluminum - Bisque) - 38 kW 60 Hz
Model RG048 (Aluminum - Bisque) - 48 kW 60 Hz





Meets EPA Emission Regulations 22 & 27 kW are CA/MA emissions compliant 32 & 38 kW not for sale in CA / MA

- SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.
 - This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at \pm 1%.
- SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- GENERAC TRANSFER SWITCHES. Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.





22 • 27 • 32 • 38 • 48 kW

GENERATOR SPECIFICATIONS

Туре	Synchronous
Rotor Insulation Class	H (22 & 27 kW) or F (32, 38 & 48 kW)
Stator Insulation Class	Н
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct

VOLTAGE REGULATION

Туре	Electronic
Sensing	Single Phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Туре	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

ELECTRICAL SYSTEM

Battery Charge Alternator	12 Volt 30 Amp
Static Battery Charger	2.5 Amp
Recommended Battery (battery not included)	Group 26 (22, 27, 32 & 38 kW) or Group 24F (48 kW), 525CCA
System Voltage	12 Volts

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Class H insulation is NEMA rated
Class F insulation is NEMA rated
All models fully prototyped tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.	
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.	
Small, compact, attractive	Makes for an easy, eye appealing installation.	
SAE	Sound attenuated enclosure ensures quiet operation.	

application & engineering data

ENGINE SPECIFICATIONS: 22, 27, 32 & 38 kW

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.4
Bore (in/mm)	3.41/86.5
Stroke (in/mm)	3.94/100
Compression Ratio	9.5:1
	Naturally Aspirated (22 & 27 kW) or
Intake Air System	Turbocharged/Aftercooled
	(32 & 38 kW)
Lifter Type	Hydraulic

ENGINE SPECIFICATIONS: 48 kW

Make	Generac
Model	V-Туре
Cylinders	8
Displacement (Liters)	5.4
Bore (in/mm)	3.55/90.2
Stroke (in/mm)	4.17/105.9
Compression Ratio	9:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/I)	4/3.8 (22, 27, 32 & 38 kW) or
	6/5.7 (48 kW)

ENGINE COOLING SYSTEM

Туре	Closed
Water Pump	Belt driven
Fan Speed (rpm)	1980 - 22 & 27 kW
	1500 - 32 & 38 kW
	1954 - 48 kW
Fan Diameter (in/mm)	18.1/459.7 (22 & 27 kW) or
	22/558.8 (32, 38 & 48 kW)
Fan Mode	Pusher (22 & 27 kW) or
	Puller (32, 38 & 48 kW)

FUEL SYSTEM

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	5-14" water column/9-26 mm HG
LP Fuel Pressure	11 - 14" Water Column
NG Fuel Pressure	5 - 14" Water Column

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(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)