

GENERAC® QUIETSOURCE® SERIES STANDBY GENERATORS

27 kW

INCLUDES:

- Generac Naturally Aspirated
 Gaseous Fueled 2.4L Engine
- Two Line LCD Tri-lingual
 Digital Nexus™ Controller
- Isochronous Electronic Governor
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 2 Year Limited Warranty
- UL 2200 Listed

Liquid-Cooled Engine Generator Sets

Standby Power Rating Model QT027 (Gray) - 27 kW 60Hz









Meets EPA Emission Regulations CA/MA emissions Compliant

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

SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.
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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. An unequalled $\pm 1\%$ voltage regulation.

- 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.



GENERATOR SPECIFICATIONS

TYPE	Synchronous
ROTOR INSULATION	Class H
STATOR INSULATION	Class H
TELEPHONE INTERFERENCE FACTOR (TIF)	< 50
ALTERNATOR OUTPUT LEADS 3 PHASE	4 wire
BEARINGS	Sealed Ball
COUPLING	Flexible Disc
LOAD CAPACITY (STANDBY RATING)	27 kW
EXCITATION SYSTEM	Direct

VOLTAGE REGULATION

TYPE	Electronic
SENSING	Single Phase
REGULATION	± 1%

GENERATOR FEATURES

Revolving field heavy duty generator
Directly connected to the engine
Operating temperature rise 120 °C above a 40 °C ambient
Insulation is Class H rated at 150 °C rise
All models are 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.		

ENGINE SPECIFICATIONS

MAKE	Generac
MODEL	Inline 4
CYLINDERS	4
DISPLACEMENT	2.4 Liter
BORE	3.41
STROKE	3.94
COMPRESSION RATIO	8.5:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Hardened
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

TYPE		Electronic
FREQUENCY REGULATION		Isochronous
STEADY STATE REGULATION		± 0.25%
ADJUSTMENTS FOR		
	Speed	Yes
	Droop	Yes

ENGINE LUBRICATION SYSTEM

OIL PUMP	Gear
OIL FILTER	Full flow spin-on cartridge
CRANKCASE CAPACITY	4 Quarts

ENGINE COOLING SYSTEM

ТҮРЕ	Closed
WATER PUMP	Belt driven
FAN SPEED	1980
FAN DIAMETER	17.75 inches
FAN MODE	Pusher

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" H ₂ 0

ELECTRICAL SYSTEM

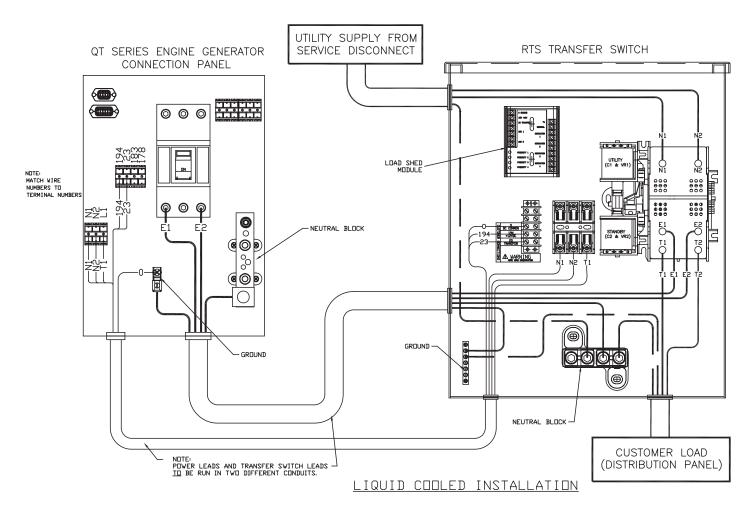
BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 26, 525CCA
SYSTEM VOLTAGE	12 Volts

Generac® QuietSource® Series Standby Generator - 27 kW



	OPER	ATING DATA				
KW RATING (LP/NG)				27/25		
ENGINE SIZE		2.4 Liter Inline 4				
GENERATOR OUTPUT VOLTAGE/KW - 60)Hz	kW LPG	AMP	kW Nat. Gas	AMP	CB Size (Both)
120/240V, 1-phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf		27 27 27	112 94 81	25 25 25	104 87 75	125 100 90
ENGINE FUEL CONSUMPTION (Natural G	as) (Propane)	Natura			Propane	
Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load*		(ft ³ /hr.) 42 108 197 287 359		(gal/hr.) 0.44 1.2 2.1 3.1 3.9	cu ft/hr 16 44 78 114 143	
For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ /	/hr x 1000 (NG)					
ENGINE COOLING						
Air flow (inlet air including alternator and co System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	mbustion air) ft³/min. US gal. BTU/hr. °C (°F) °C (°F)	2,400 2.5 120,000 60 (150) 50 (140)				
COMBUSTION AIR REQUIREMENTS						
Flow at rated power 60 Hz	cfm			68		
SOUND EMISSIONS IN DBA						
Exercising at 7 meters Normal operation at 7 meters				62 75		
EXHAUST						
Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	130 900				
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz			1800		
POWER ADJUSTMENT FOR AMBIENT C	ONDITIONS					
1.0	3% for every 10 °C above - °C 65% for every 10 °F above - °F			25 77		
	1% for every 100 m above - m % for every 1000 ft. above - ft.			183 600		

Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.



NEXUS™ CONTROL FEATURES

2-Line Plain Text LCD Display	Simple user interface for ease of operation
Mode Switch	Automatic Start on Utility failure. 7 day exerciser
-Auto	
-Off	Stops unit. Power is removed. Control and charger still operate.
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 10-30 seconds	Standard
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration)
Engine Warm-up	5 seconds
Engine Cool-Down	1 minute
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.
Smart Battery Charger	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Automatic Low Oil Pressure Shutdown	Standard
Overspeed Shutdown	Standard, 72Hz
High Temperature Shutdown	Standard
Overcrank Protection	Standard
Safety Fused	Standard
Failure to Transfer Protection	Standard
Low Battery Protection	Standard
50 Event Run Log	Standard
Future Set Capable Exerciser	Standard
Incorrect Wiring Protection	Standard
Internal Fault Protection	Standard
Common External Fault Capability	Standard
Governor Failure Protection	Standard

^{*}Single and three phase connections may vary, refer to the owner's manual for specific connection information.

