

GENERAC® QUIETSOURCE® SERIES STANDBY GENERATORS

22 kW

INCLUDES:

- Generac Naturally Aspirated Gaseous Fueled 2.4L Engine
- Two Line LCD Tri-lingual Digital Nexus[™] Controller
- 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
- 2 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating Model QT022 (Gray) - 22 kW 60Hz



Liquid-Cooled Engine Generator Sets

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 EVALUATIONMOTOR STARTING ABILITY
- 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. An unequalled ±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

ТҮРЕ	Synchronous
ROTOR INSULATION	Class H
STATOR INSULATION	
TELEPHONE INTERFERENCE FACTOR (TIF)	
ALTERNATOR OUTPUT LEADS 3 PHASE	4 wire
BEARINGS	Sealed Ball
COUPLING	Flexible Disc
LOAD CAPACITY (STANDBY RATING)	22 kW
EXCITATION SYSTEM	Direct

VOLTAGE REGULATION

ТҮРЕ	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.		
SAE	Sound attenuated enclosure ensures quiet operation.		

ENGINE SPECIFICATIONS

MAKE	Generac
MODEL	In line
CYLINDERS	4
DISPLACEMENT	2.4 Liter
BORE	3.41
STROKE	3.94
COMPRESSION RATIO	9.5:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Hardened
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

ТҮРЕ	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	18.1 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

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046, and DIN6271). (All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271).

Generac® QuietSource® Series Standby Generator - 22 kW

	OPERA	TING DATA			
KW RATING (LP/NG)			22/2	2	
ENGINE SIZE 2.4 Liter Inline 4					
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		KW	AMP	CB Size	
120/240V, 1-phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf		22 92 11 22 76 8 22 66 8		C	
Exercise cycle 25% of rated load 50% of rated load 50% of rated load 75% of rated load 100% of rated load* For Btu content, multiply ft*/hr x 2520 (LP) or ft*/hr x 1000 (NG) ENGINE COOLING Air flow (inlet air including alternator and combustion air) System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	ft ³ /min. US gal. BTU/hr. °C (°F) °C (°F)	(ft³) 4 10 19	2 00 90 55	00 50)	ane cu ft/hr 16 40 75 101 125
COMBUSTION AIR REQUIREMENTS	,			,	
Flow at rated power 60 Hz	cfm		68		
SOUND EMISSIONS IN DBA					
Exercising at 7 meters Normal operation at 7 meters			61 70		
EXHAUST					
Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	165 900			
ENGINE PARAMETERS					

1800

25

77

183

600

GENERAC

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

All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a RATING: reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

60 Hz

3% for every 10 °C above - °C

1% for every 100 m above - m 3% for every 1000 ft. above - ft.

1.65% for every 10 °F above - °F

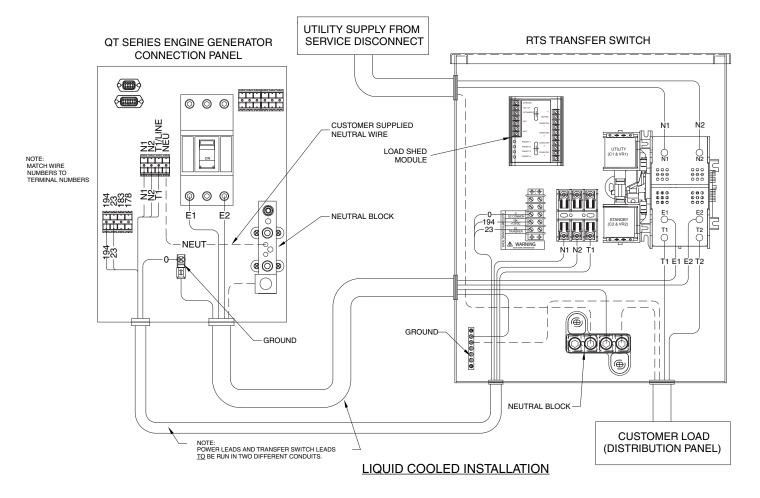
KW rating is based on LPG Fuel and may derate with natural gas.

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Rated synchronous RPM

Temperature Deration

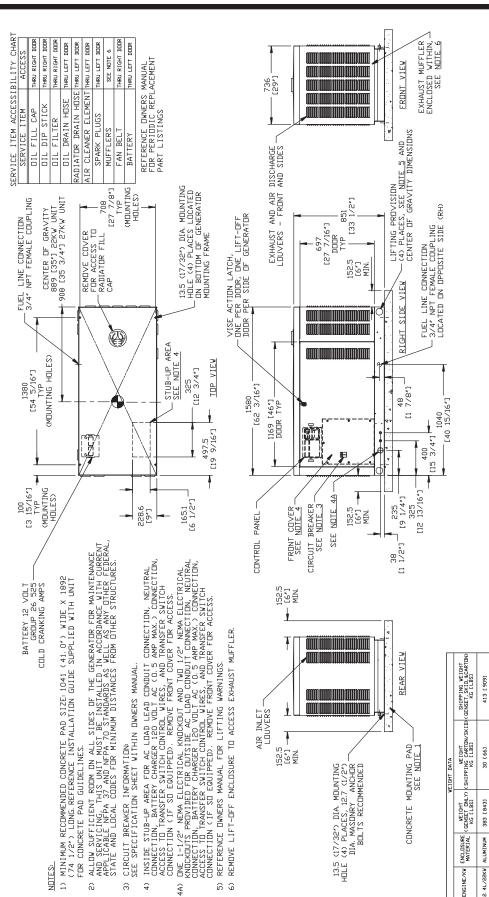
Altitude Deration



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.



AVAILABLE ACCESSORIES

Model #	Product	Description
5630	Cold Weather Kit	If the temperature regularly falls below 32° F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
5621	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load you may not need.
5616	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32° F for extended periods of time. For liquid cooled units only.
5651	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
5704	Paint Kit	Medium Grey Kit
5656	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform a complete maintenance on Generac liquidcooled generators.
5928	Nexus Wireless Remote	Completely wireless and battery powered, Generac's Nexus wireless remote monitor provides you with instant status information without ever leaving the house.
5951	Advanced Nexus Wireless Remote	Remotely control generator functions with the advanced model's LCD display. In addition to remote testing of the generator, set the excercise cycle and maintenance interval reminders
5937	DLM Load Control Module (50 Amps)	DLM Modules are used in conjunction with the Nexus Smart Switch to increase its load management capabilities. It gives the Nexus Smart Switch additional load management flexibility not found in any other transfer switch.

