

GENERAC® QUIETSOURCE® SERIES STANDBY GENERATORS

48 kW

INCLUDES:

- Generac Naturally Aspirated Gaseous Fueled 5.4L 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

Liquid-Cooled Engine Generator Sets

Standby Power Rating Model QT048 (Gray) - 48 kW 60Hz









Meets EPA Emission Regulations CA/MA Emissions Compliant with Optional Catalyst

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.
 This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing

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 F
STATOR INSULATION	Class H
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
LOAD CAPACITY (STANDBY RATING)	48 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 at 40 °C ambient Insulation is Class F rated at 145 °C rise at 25 °C ambient 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	V8
CYLINDERS	8
DISPLACEMENT	5.4 Liter
BORE	3.55
STROKE	4.17
COMPRESSION RATIO	9:1
INTAKE AIR SYSTEM	Naturally Aspirated
LIFTER TYPE	Roller, Hydraulic

GOVERNOR SPECIFICATIONS

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± 0.25%

ENGINE LUBRICATION SYSTEM

OIL PUMP	Gear
OIL FILTER	Full flow spin-on cartridge
CRANKCASE CAPACITY	6.5 Quarts

ENGINE COOLING SYSTEM

TYPE	Pressurized Closed
FAN SPEED	1954
FAN DIAMETER	22 inches
FAN MODE	Puller

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

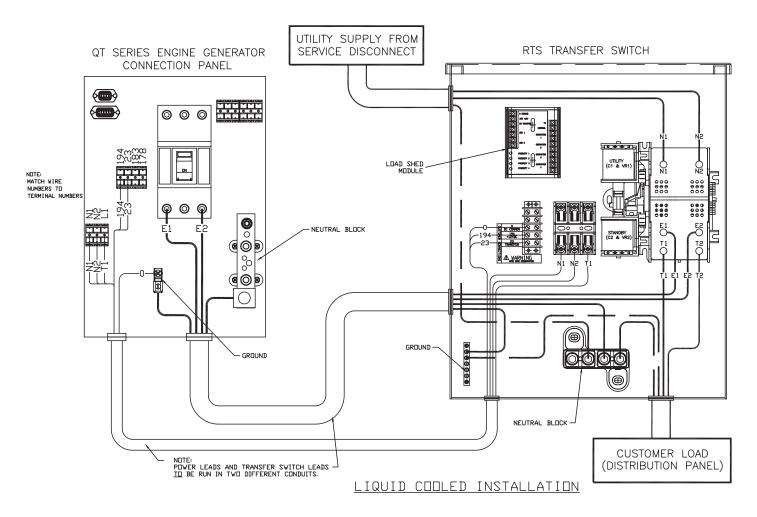
BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 24F, 525CCA
SYSTEM VOLTAGE	12 Volts

Generac® QuietSource® Series Standby Generator - 48 kW



	OPER/	ATING DATA			
KW RATING (LP/NG)				48/48	
ENGINE SIZE		5.4 Liter			
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		kW LP	AMP	C	B Size
120/240V, 1-phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf 277/480V, 3-phase, 0.8 pf		48 48 48 48	200 166 144 72	200 175 150 80	
EXERCISE CYCLE Exercise cycle 25% of rated load 50% of rated load 75% of rated load	(ropane)	Natur 3 (ft ³ / 9 20 39 54	/hr.) 5 04 92	(gal/hr.) 2.0 2.16 4.14 5.8	ropane cu ft/hr 38 82 157 220
100% of rated load* For Btu content, multiply ft*/hr x 2520 (LP) or ft*/hr x 10	100 (NG)	547 756		7.96	302
ENGINE COOLING	(1-7)				
Air flow (inlet air including alternator and combust System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	ion air) ft ³ /min. US gal. BTU/hr. °C (°F) °C (°F)	4350 3.0 186,000 60 (150) 50 (140)			
COMBUSTION AIR REQUIREMENTS					
Flow at rated power 60 Hz	cfm	163			
SOUND EMISSIONS IN DBA					
Exercising at 7 meters Normal operation at 7 meters		63 68			
EXHAUST					
Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	414 1025			
ENGINE PARAMETERS					
Rated synchronous RPM	60 Hz			1800	
POWER ADJUSTMENT FOR AMBIENT CONDI	TIONS				
1.65% fo	3% for every 10 °C above - °C 1.65% for every 10 °F above - °F		25 77		
Altitude Deration 1% for every 100 m above - m 3% for every 1000 ft. above - ft.		183 600			

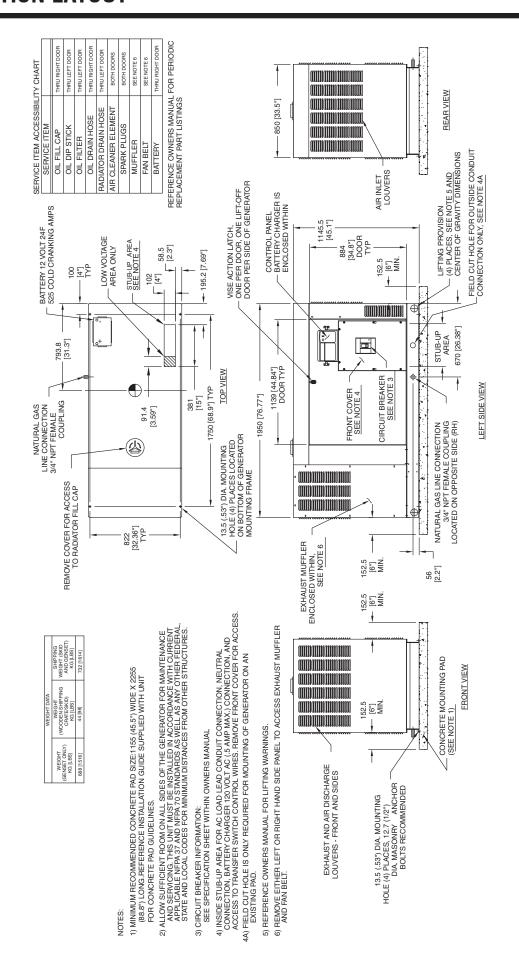
^{*} Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.



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.



Model #	Product	Description
5632	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.
6204	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
6205	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform a complete maintenance on Generac liquid-cooled 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.

