

GENERAC® QUIETSOURCE® SERIES STANDBY GENERATORS

48 kW

INCLUDES:

- Generac Naturally Aspirated Gaseous Fueled 4.2L 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
- UL 2200 Listed

Liquid-Cooled Engine Generator Sets

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









Meets EPA Emission Regulations

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 General models. It provides entimized EAST 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 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)	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 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	V6
CYLINDERS	6
DISPLACEMENT	4.2 Liter
BORE	3.81
STROKE	3.74
COMPRESSION RATIO	9.3:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Precision ground and hardened
LIFTER TYPE	Roller, 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	6 Quarts

ENGINE COOLING SYSTEM

TYPE	Pressurized Closed
WATER PUMP FLOW	10.8 gal/min
FAN SPEED	1050
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

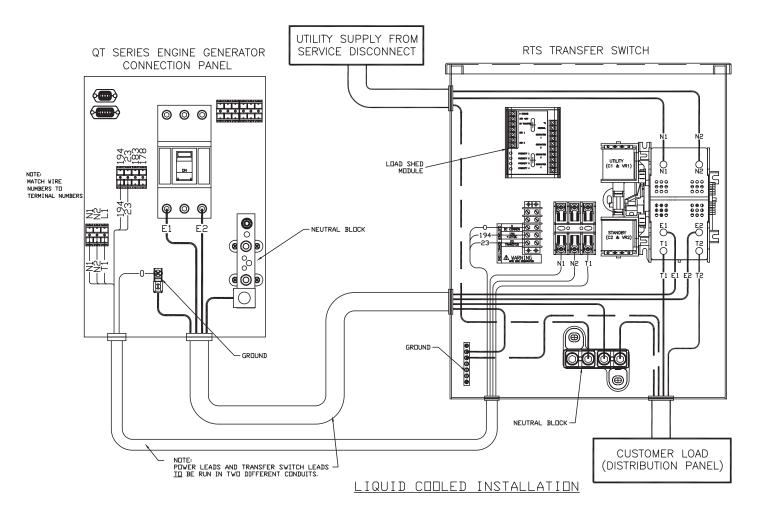
BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 24F, 525CCA
SYSTEM VOLTAGE	12 Volts

Generac® QuietSource® Series Standby Generator - 48 kW



	OPER	ATING DATA				
KW RATING (LP/NG)				48/46		
ENGINE SIZE		4.2 Liter				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		kW LP	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 277/480V, 3-phase, 0.8 pf		48 48 48 48	200 166 144 72	46 46 46 46	192 160 138 69	200 175 150 80
ENGINE FUEL CONSUMPTION (Natural Gas)	(Propane)		al Gas		Propane	
Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load*		(ft³/hr.) (gal/hr.) 70 0.8 205 2.23 370 4.03 516 5.6 655 7.20			cu ft/hr 28 81 147 205 260	
ENGINE COOLING						
Air flow (inlet air including alternator and comb System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	ustion air) ft³/min. US gal. BTU/hr. °C (°F) °C (°F)	2,460 3.0 165,000 60 (150) 50 (140)				
COMBUSTION AIR REQUIREMENTS						
Flow at rated power 60 Hz	cfm	235				
SOUND EMISSIONS IN DBA						
Exercising at 7 meters Normal operation at 7 meters		60 65				
EXHAUST						
Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	395 1100				
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz			1800		
POWER ADJUSTMENT FOR AMBIENT CON	DITIONS					
1.65%	for every 10 °C above - °C 6 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.

