



STANDBY GENERATORS

20 kW

Air-Cooled Gas Engine Generator Sets

INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Digital Controller
- Electronic Governor
- 200 Amp Service Entrance Rated Automatic Transfer Switch
- External Main Circuit Breaker, System Status & Maintenance Interval LED's and GFCI Duplex Outlet
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- UL 2200 Listed

Continuous Standby Power Rating
Model 05744 (Aluminum - Gray) - 20 kW 60Hz



QUIET-TEST™

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.
- **TRUE POWER® ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **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 load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's 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.

GENERAC®

FEATURES

Guardian Standby Generator - 20 kW

ENGINE	•Generac (OHVI) Design	Maximizes engine “breathing” for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings help engine run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.
	•”Spiny-lok” cast iron cylinder walls	Rigid construction and added durability provide long engine life.
	•Electronic ignition/spark advance	These features combine to assure smooth, quick starting every time.
	•Full pressure lubrication system	Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life. Now featuring a 2 year/200 hour oil change interval.
	•Low oil pressure shutdown system	Superior shutdown protection prevents catastrophic engine damage due to low oil.
	•High temperature shutdown	Prevents damage due to overheating.
GENERATOR	•Revolving field	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	•Skewed stator	Produces a smooth output waveform for compatibility with electronic equipment.
	•Displaced phase excitation	Maximizes motor starting capability.
	•Automatic voltage regulation	Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.
	•UL 2200 Listed	For your safety
CONTROLS	•Manual/Auto/Off switch	Selects the operating mode.
	•Utility voltage sensing	Constantly monitors utility voltage, setpoints 65% dropout, 75% pick-up, of standard voltage.
	•Utility interrupt delay	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.
	•Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 10 seconds.
	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
	•Seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages.
	•Timed Trickle Battery charger	Maintains battery charge level to insure starting.
	•Main Line Circuit Breaker	Protects generator from overload.
	•Electronic governor	Maintains constant 60 Hz frequency.
UNIT	•Weather protective enclosure	Ensures protection against mother nature. Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. 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.
INSTALLATION SYSTEM	•1' Flexible Fuel Line Connector	Easy Installation
	•Composite Mounting Pad	

GENERAC®

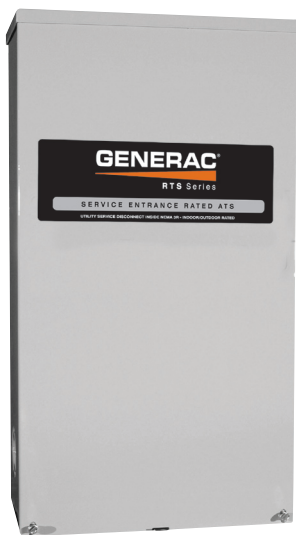
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet above sea level; and also will decrease about 1 percent for each 12° C (10° F) above 15.5° C (60° F).

Guardian Standby Generator - 20 kW

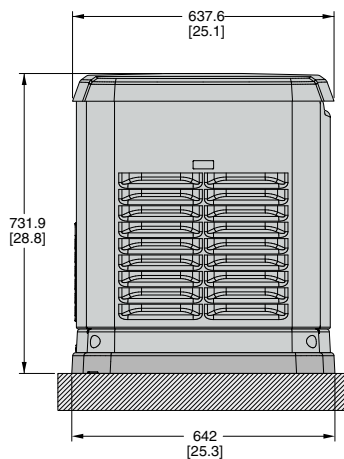
TRANSFER SWITCH & PRIORITY LOAD CENTER		Model RTSE200A3
No. of Poles		2
Current Rating (amps)		200
Voltage Rating (VAC)		250
Utility Voltage Monitor (fixed)		
-Pick-up		75%
-Dropout		65%
Return to Utility		approx. 13 sec.
Exerciser weekly for 12 minutes		Standard
UL Listed		Standard
Enclosure Type		NEMA 3R
Withstand Rating (Amps)		10,000
Lug Range		400MCM - #4
External Dimensions (H" x W" x D")		
inches		30 x 16 x 7.1
mm		762 x 407 x 180

Transfer Switch Features

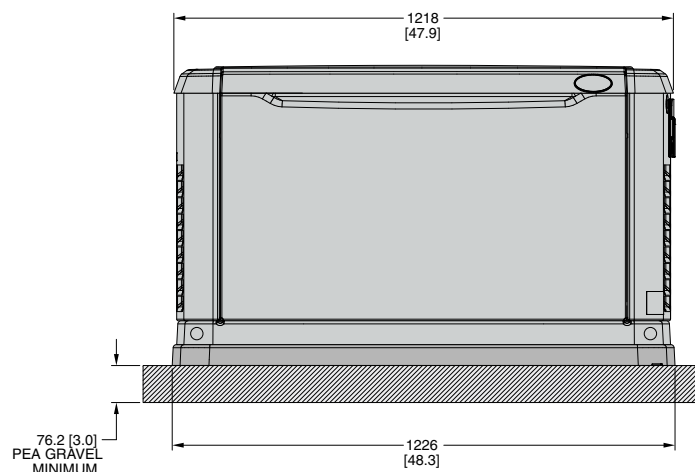
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- Dual coil design.
- Service Entrance Rated
- NEMA 3R aluminum outdoor enclosure.
- Main contacts are silver plated or silver alloy to resist welding and sticking.



Design and specifications subject to change without notice. Dimensions shown are approximate. Contact your Generac dealer for certified drawings. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



LEFT SIDE VIEW



FRONT VIEW