

# Standby Power Rating

## 30 kW 60 Hz

Liquid Cooled  
Gas Engine  
Generator Sets

Model Numbers:

05219  
05219T



Ultra Quiet Mode  
For Low Noise Exercise  
- 63 dB(A) at 23 feet

### GENERAC 3.0L ENGINE

Naturally Aspirated  
Gaseous Fueled

UL 2200 Listed



Model 5219T is equipped with a  
200 amp NEMA 3R Transfer Switch.  
Transfer Switch available for Model 5219.

## STANDARD EQUIPMENT

- All input connections in one single area
- High coolant temperature shutdown
- Low oil pressure shutdown
- Low coolant level automatic shutdown
- Overspeed automatic shutdown
- Crank timer
- Exercise timer
- Oil drain extension
- Cool flow radiator
- Closed coolant recovery system
- UV/Ozone resistant hoses
- Watertight state of the art electrical connectors
- Mainline circuit breaker
- Radiator drain extension
- Battery charge alternator
- 2 Amp static battery charger
- Battery cables
- Battery rack
- Fan and belt guards
- Isochronous governor

## FEATURES

- Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed enclosure
- Ultra Quiet Mode for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system
- R100 digital control panel
- State of the art digital control system
- Watertight electrical connectors
- Rodent proof construction
- High efficiency, low distortion Generac designed alternator
- Vibration isolated from mounting base
- Matching Generac transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- Electrostatically applied powder paint



# APPLICATION & ENGINEERING DATA

STANDBY 30 kW

## GENERATOR SPECIFICATIONS

TYPE .....	Synchronous
ROTOR INSULATION .....	Class H
STATOR INSULATION .....	Class H
TOTAL HARMONIC DISTORTION .....	<3.5%
TELEPHONE INTERFERENCE FACTOR (TIF) .....	<50
ALTERNATOR OUTPUT LEADS 3 PHASE .....	4 wire
BEARINGS .....	Sealed Ball
COUPLING .....	Flexible Disc
LOAD CAPACITY (STANDBY RATING) .....	30 kW
EXCITATION SYSTEM .....	Direct

**NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.**

## VOLTAGE REGULATOR

TYPE .....	Electronic
SENSING .....	Single Phase
REGULATION .....	± 1%
FEATURES .....	V/F Adjustable Adjustable Voltage and Gain LED Indicators

## 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

## CONTROL PANEL FEATURES

- |   |   |
|---|---|
| <input type="checkbox"/> SEVEN LED INDICATOR LIGHTS | <input type="checkbox"/> ADDITIONAL FUNCTIONS |
|---|---|
- System ready
  - Low fuel pressure
  - Low battery voltage
  - Low oil pressure
  - High coolant temp/low coolant temp
  - Overspeed
  - Overcrank
  - Utility sensing
  - Delay on utility failure for engine start
  - Engine warm-up before transfer
  - Delay to retransfer to utility
  - Engine cooldown timer
  - Exerciser not set
- 
- |   |
|---|
| <input type="checkbox"/> INTERNAL FUNCTIONS |
|---|
- 3 position switch (auto, off and manual)
  - 2 wire start for any transfer switch
  - Communicates with the Generac RTS transfer switch
  - Built-in 7 day exerciser
  - Selectable engine speed at exercise
  - Governor controller is built into the master control board
  - Temperature range -40 °C to 70 °C

## ENGINE SPECIFICATIONS

MAKE .....	Generac
MODEL .....	V Type
CYLINDERS .....	6
DISPLACEMENT .....	3.0 Liter
BORE .....	3.55
STROKE .....	3.1
COMPRESSION RATIO .....	9.3:1
INTAKE AIR SYSTEM .....	Naturally Aspirated
VALVE SEATS .....	Hardened
LIFTER TYPE .....	Hydraulic

## GOVERNOR SPECIFICATIONS

TYPE .....	Electronic
FREQUENCY REGULATION .....	Isochronous
STEADY STATE REGULATION .....	± .25%
ADJUSTMENTS	
Speed .....	Yes
Droop .....	Yes

## ENGINE LUBRICATION SYSTEM

OIL PUMP .....	Gear
OIL FILTER .....	Full flow cartridge
CRANKCASE CAPACITY .....	4 Quarts

## ENGINE COOLING SYSTEM

TYPE .....	Closed
WATER PUMP .....	Belt driven
FAN SPEED .....	2150
FAN DIAMETER .....	18 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 VAPOR SYSTEMS .....	Nat. Gas 5" to 14" H <sub>2</sub> O LP Vapor .....5" to 14" H <sub>2</sub> O

## ELECTRICAL SYSTEM

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

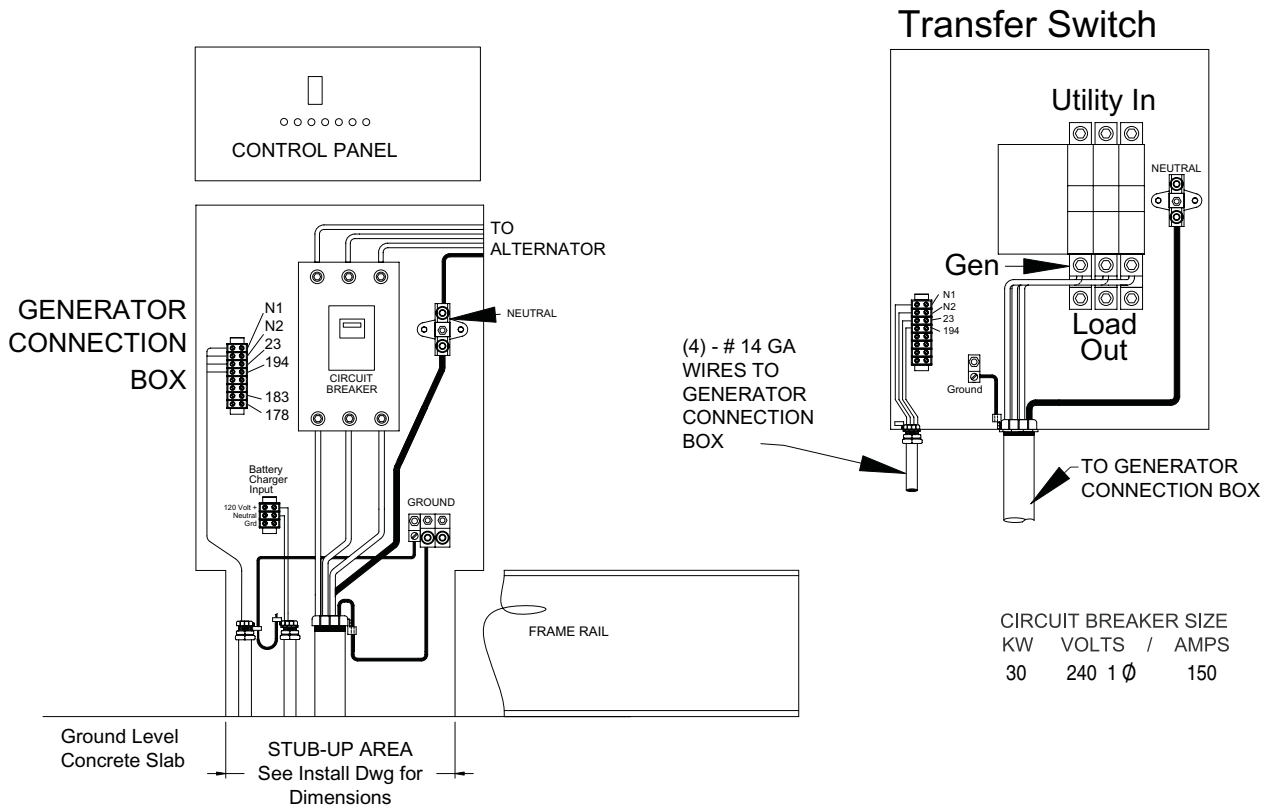
**STANDBY 30 kW**

**OPERATING DATA**

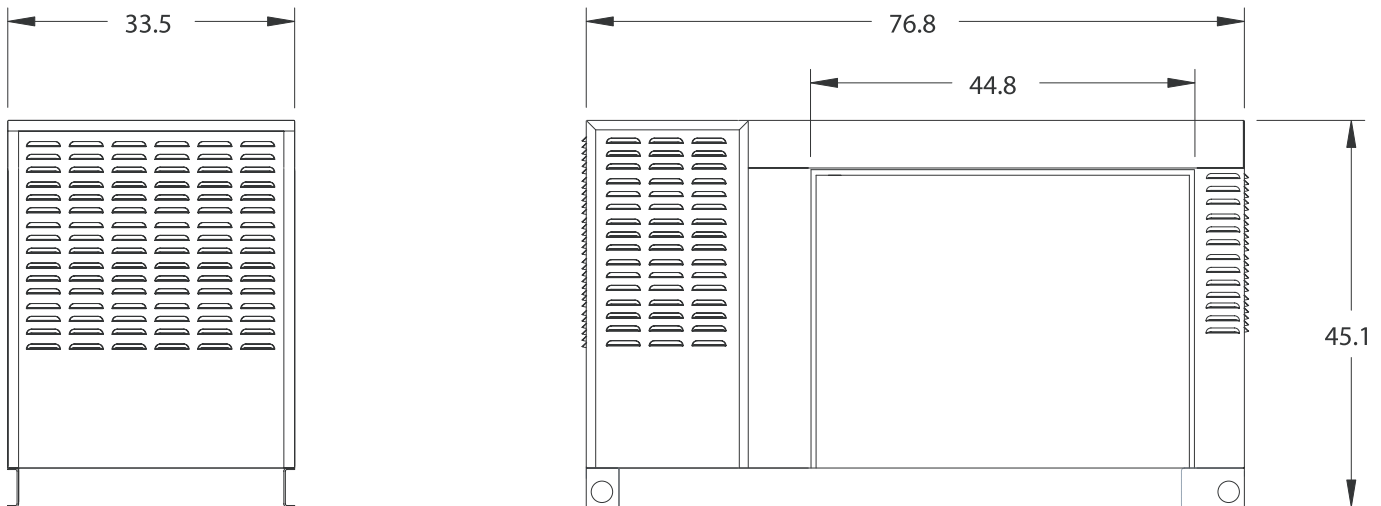
		<b>STANDBY 30 kW</b>				
<b>KW RATING LP/NG</b>		30/27				
<b>ENGINE SIZE</b>		3.0 Liter V-6				
<b>GENERATOR OUTPUT VOLTAGE/KW - 60Hz</b> 120/240V, 1-phase, 1.0 pf		<b>KW</b> LP 30 / NG 27	<b>AMP</b> LP 125 / NG 112.5	<b>CB Size</b> 150		
<b>GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%</b> Single phase		60				
<b>FUEL – Natural Gas and LP Vapor Only</b> Fuel consumption – 60Hz		<u>Exercise Cycle</u>	<u>25% Load</u>	<u>50% Load</u>	<u>75% Load</u>	<u>100% Load</u>
	<b>N.G. ft.<sup>3</sup>/hr.</b>	70	111	214	298	412
	<b>LP ft.<sup>3</sup> /hr.(gal./hr. - for reference only)</b>	28.3 (.77)	44 (1.2)	85.2 (2.34)	118.6 (3.26)	164 (4.5)
<b>ENGINE COOLING</b>						
Air flow (inlet air including alternator and combustion air)	ft <sup>3</sup> /min.	2460				
Coolant capacity	US gal.	2.5				
Heat rejection to coolant	BTU/hr.	115,000				
Max. operating air temp. on radiator	°C (°F)	60 (150)				
Max. ambient temperature	°C (°F)	50 (140)				
<b>COMBUSTION AIR REQUIREMENTS</b>						
Flow at rated power 60 Hz	cfm	92				
<b>SOUND EMISSIONS IN DBA</b>						
Exercising at 7 meters		63				
Full load at 7 meters		73				
<b>EXHAUST</b>						
Exhaust flow at rated output 60 Hz	cfm	200				
Exhaust temp. at muffler outlet	°F	890				
<b>ENGINE PARAMETERS</b>						
Rated synchronous RPM	60 Hz	1800				
HP at rated KW	60 Hz	48				
<b>POWER ADJUSTMENT FOR AMBIENT CONDITIONS</b>						
Temperature Deration						
	3% for every 10 °C above - °C	25				
	1.65% for every 10 °F above - °F	77				
Altitude Deration						
	1% for every 100 m above - m	183				
	3% for every 1000 ft. above - ft.	600				
<b>TRANSFER SWITCH SPECIFICATIONS</b>						
No. of Poles		2				
Current Rating	(amps)	200				
Voltage Rating	(VAC)	250				
Utility Voltage Monitor	(fixed)					
	Pick-up	80%				
	Dropout	60%				
Return to Utility		1 minute				
Exerciser 15 minutes weekly		Standard				
UL Listed		Standard				
Enclosure - NEMA 3R (Outdoor rated)		Standard				
Dimensions	(H" x W" x D")	20 x 15 x 7				
Weight		35 lbs				

# INTERCONNECTIONS

STANDBY 30 kW



# INSTALLATION LAYOUT



**UNIT WEIGHT 1431 LBS.**

**GENERAC<sup>®</sup> POWER SYSTEMS, INC. P.O. BOX 297 WHITEWATER, WI 53190**

WEBSITE: [guardiangenerators.com](http://guardiangenerators.com)