

GUARDIAN® ADVANTAGE

Are you prepared to handle a power outage?

Most people are not.

Don't take your power for granted, be prepared with a GUARDIAN automatic standby generator.



GUARDIAN automatic standby generators take the worry out of power outages. As the #1 Selling Home Standby Generator, GUARDIAN provides peace of mind for home and business owners. No one else in the industry can compare.

Whether you're at home or away, your GUARDIAN standby generator is ready to assume control of your electrical needs when a power outage occurs. Within seconds, back-up electricity is provided to your home or business, restoring essential items such as lights, climate control, refrigeration, etc.

Unlike a portable generator, you don't have to go outside, run a maze of extension cords or bother with gasoline, because an automatic standby generator operates on your LP or natural gas supply. Plus, when utility power returns, the generator automatically shuts down and waits for the next outage.

Owning a GUARDIAN standby generator has never been more convenient or affordable. Starting under \$1900*, you can protect your home, belongings, and most importantly, your family's safety.

*7kW model not including installation.



- Keep heating, air conditioning, sump pumps, refrigerators and water heaters operating
- Keep lines of communication open (telephone, television and Internet)
- Keep lights, security systems and cash registers running



GeneratorJoe



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FREQUENTLY ASKED QUESTIONS

Q. What is an automatic standby generator?

A. An automatic standby generator is a back-up electrical system that operates whether you are at home or away. It automatically supplies power to essential circuits of your home or business within 30 seconds of a utility outage. After utility power returns, the generator shuts itself off and awaits the next outage. It operates on natural gas or liquid propane gas and sits outside just like a central air conditioning unit.

Q. Why should I buy an automatic generator instead of a portable generator?

A. While portable generators do supply power, a home standby generator produces a higher quality of electricity. It operates automatically whether you're at home or away, and runs a self-test weekly to ensure proper response to your needs. When utility power returns, the home standby generator shuts itself off automatically. There are no extension cords to plug in, and no gas tanks to fill.

Q. What will a standby generator power?

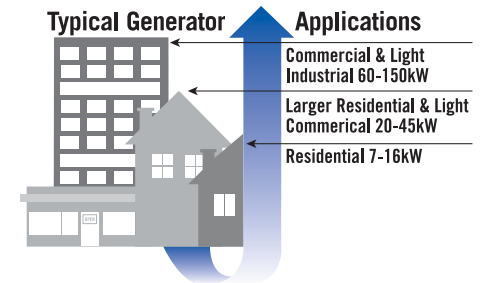
A. The GUARDIAN air-cooled 7-16kW models, which come equipped with a pre-wired transfer switch, supply electricity to your home's electrical panel circuits through a built-in load center. You select the number of circuits you want to protect and match it to the appropriate generator. (Refer to the chart under "Sizing a Generator" for circuit protection with pre-packaged air-cooled models).

Q. Why circuits and not watts?

A. Establishing the wattage requirements of the appliances that you want powered during an outage is difficult because your electricity runs through a variety of circuits in the main electrical panel. GUARDIAN allows you to support those circuits for easy sizing and flexibility. Running a circuit through the GUARDIAN load center allows you to protect everything on that circuit, so it doesn't just power items plugged into outlets like refrigerators. GUARDIAN also powers lights, furnaces, air conditioners, well pumps and other appliances that are hard wired into your electrical panel.

Q. What's the difference between air-cooled and liquid-cooled models?

A. An air-cooled generator is an economical solution that covers essential circuits and back-up power needs. Liquid-cooled models meet larger requirements such as whole house power coverage and commercial applications.



Q. What is Whisper-Test™?

A. Whisper-Test is a feature that reduces noise by 50% during the generator's weekly self-test cycle. The generator starts up and operates at a reduced speed, lowering sound output by as much as 12 decibels for units that normally run at higher speeds under load. This allows for near silent operation in test mode and satisfies all known sound ordinances.

Q. Do they have to be maintained?

A. Yes. Just like your car engine, generators need periodic oil and filter changes. Many customers utilize GUARDIAN's preventative maintenance kits for routine maintenance requirements.

Q. How long does it take to get the generator?

A. Air-cooled models 7-16kW ship within 14 days of order placement. Liquid-cooled models 20-45kW will ship within 30 days. Commercial models 20-150kW will ship within 6-8 weeks. Lead times may vary due to weather emergencies.

SIZING A GENERATOR

When choosing the right generator, you must first decide how many circuits or rooms in your home or small business you should protect. The more circuits that require protection, the larger the generator you need.

The automatic transfer switch in pre-packaged, air-cooled systems allows you to match the system's load center circuits to the amperage in your home's main distribution panel. (See Fig. A). Simply determine which circuits to protect during an outage and choose a generator. There is no need to add up wattages, since you'll never use all appliances on every circuit at the same time.

For whole-house protection, GUARDIAN's liquid-cooled models range from 20 - 45kW in single phase and the commercial models range from 60-150kW in single and three phase voltages.

To get accurate sizing requirements of a liquid-cooled generator, a licensed electrician will need to apply an amp meter to the circuits and appliances that are intended to operate on backup power.

(Fig. B) is an example of the circuits that can be protected with a 16kW (16 circuits) pre-packaged air-cooled generator.



FIGURE B

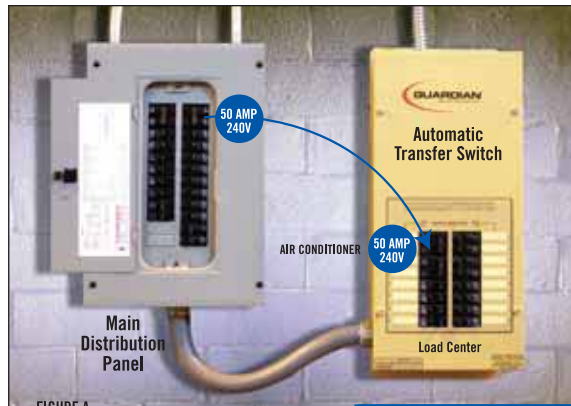


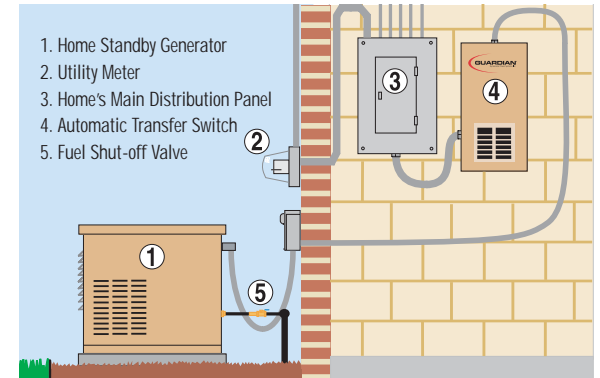
FIGURE A

Typical Loads	Circuits	Models			
		7kW	10kW	13kW	16kW
A/C (5-Ton)	(50 Amp/240V)*				•
A/C (4-Ton)	(40 Amp/240V)*			•	•
A/C (3-Ton or smaller)	(30 Amp/240V)*	◆	•	•	
Well Pump or Water Heater	(20 Amp/240V)*		•		•
Family Room	(20 Amp/120V)	•	•	•	•
Master Bedroom	(20 Amp/120V)		•	•	•
Home Office	(20 Amp/120V)				•
Garage	(20 Amp/120V)			•	•
Kitchen (#1)	(20 Amp/120V)			•	•
Kitchen (#2)	(15 Amp/120V)	•		•	•
Bathroom	(15 Amp/120V)	•	•	•	•
Furnace	(15 Amp/120V)	•	•	•	•
Sump Pump	(15 Amp/120V)	•	•	•	•
Bedrooms	(15 Amp/120V)	•	•	•	•
Number of circuits covered		8	10	12	16



NOTE: Rooms and appliances are shown as example only. You may choose other items that better fit your needs. Due to the cycling nature of some appliances all items may not be able to run simultaneously. *A 240V 2-pole circuit breaker is equal to 2 circuits. ◆ For smaller central air conditioning units only. Check A/C starting requirements.

HOW IT WORKS



Once your standby generator has been installed outside of your home or business, the automatic transfer switch is installed next to your main distribution panel.

With an air-cooled system, you identify the circuits you want to protect, then you match those circuits on your distribution panel to the transfer switch's load center. Larger generators may protect all circuits with an appropriate transfer switch.

The system provides monitoring of incoming voltage from the utility line around the clock.

When utility power is interrupted, the transfer switch senses the problem and signals for the generator to start.

The automatic transfer switch will then safely close off the utility line and open a new power line from the generator.

Within seconds, your home standby system will supply electricity to your pre-selected circuits. When utility line voltage returns, the transfer switch will re-transfer the electrical load back to the utility source and resume monitoring for subsequent utility loss.



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AIR-COOLED RESIDENTIAL / 8, 10, 12 & 16 CIRCUITS



Pre-packaged system includes: 100 Amp automatic transfer switch with load center, outdoor connection box, pre-wired conduits, flexible fuel line, composite mounting pad and installation guide.



7-13kW



NEW!

Aluminum enclosure (gray)



16kW

Steel enclosure (tan)

WHISPER-TEST

Pre-packaged system includes: 100 Amp automatic transfer switch with load center, outdoor connection box, pre-wired conduits, flexible fuel line, composite mounting pad and installation guide.

THE #1 SELLING HOME STANDBY GENERATOR ON THE MARKET!

GUARDIAN™ air-cooled standby generators are designed to supply electricity to pre-selected circuits that supply a home's essential items in the event of a utility power outage. The pre-wired, pre-packaged system makes installation easy and affordable. That's why GUARDIAN is the #1 Selling Home Standby Generator on the Market.

- **Breakthrough Design:** Creates the greatest starting power to run the items that matter most (13kW model starts a 4-ton A/C and the 10kW starts a 3-ton unit)
- **Circuit Coverage:** Protects 12, 10 or 8 circuits of your home (13, 10 and 7kW models respectively)
- **Generac OHVI® Industrial Engine:** The longest life design and most horsepower in its class
- **Superior Paint:** Tough paint finish for unmatched durability
- **Safe Design:** UL listed / automatic voltage regulation for sensitive electronics
- **Continuous Fuel:** Models run on natural gas or liquid propane gas



BREAKTHROUGH DESIGN: THE QUIETEST, MOST POWERFUL. PERIOD.

The QuietSource™ 16kW models are the most powerful and quietest air-cooled generators on the market. The exclusive Whisper-Test™ feature allows the generator to run 50% quieter during the weekly self-testing cycle.

- **Breakthrough Design:** Creates the greatest starting power to run the items that matter most (starts a 5-ton A/C or two (2) 4-ton A/C units)
- **Whisper-Test:** Patent-pending self-test feature makes the QuietSource quieter than your central air conditioner
- **Extra Coverage:** Powers 16 circuits of your home
- **Generac OHVI® Industrial Engine:** The longest life design and most horsepower in its class
- **Enclosure Options:** Steel (tan) or corrosion-resistant aluminum (gray) enclosure for coastal communities
- **Superior Paint:** Tough paint finish for unmatched durability
- **Safe Design:** UL listed / automatic voltage regulation and electronic governor for sensitive electronics
- **Continuous Fuel:** Models run on natural gas or liquid propane gas



LIQUID-COOLED LARGER RESIDENTIAL / LIGHT COMMERCIAL



Aluminum enclosure (gray)



20-45kW

WHISPER-TEST

Steel enclosure (tan)

*Pre-packaged system includes: Generator, automatic transfer switch (see specification charts for amperage) and flexible fuel line.

BROADEST LINE OF GENERATORS ON THE MARKET!

Higher wattage requirements need larger generators. The QuietSource™ line of standby generators are built for larger homes and small business. Featuring automotive style, liquid-cooled engines and the exclusive Whisper-Test™ feature, their greater power output and quiet design makes for more complete and peaceful coverage during an electrical outage.

- Liquid-cooled engine based models produce more electricity for greater needs
- **Whisper-Test:** Patent-pending self-test feature makes the QuietSource 50% quieter
- ***Pre-packaged with automatic transfer switch** (on steel enclosure models only)
- **Enclosure Options:** Steel (tan) or corrosion-resistant aluminum (gray) enclosure for coastal communities
- **Superior Paint:** Tough paint finish for unmatched durability
- **Safe Design:** UL listed / automatic voltage regulation and electronic governor for sensitive electronics
- **Continuous Fuel:** Models run on natural gas or liquid propane gas

TRANSFER SWITCHES



100/200 AMP

- Includes transfer switch only
- NEMA 3R (Indoor/Outdoor)
- For installations with a sub panel
- For custom installations



100/200 AMP with service disconnect

- Service entrance rated
- NEMA 3R (Indoor/Outdoor)
- Easy & economical installation



Model	Amps	Volts	Enclosure Type
RTS-N-100A3	100	120/240V 1ø	NEMA 3R
RTS-N-200A3	200	120/240V 1ø	NEMA 3R
RTS-E-100A3*	100	120/240V 1ø	NEMA 3R
RTS-E-200A3*	200	120/240V 1ø	NEMA 3R

*With service disconnect. Transfer switches used with models to left.



RTS 100-400 AMP

Designed for a wide variety of applications that require up to 400 Amps. RTS transfer switches are used with the GUARDIAN Elite Commercial model OT060. They can be used with QuietSource models 5260 and 5262 as well.

Model	Amps	Volts	Enclosure Type
RTS-N-100K3	100	277/480V 3ø	NEMA 3R
RTS-N-200G3	200	120/208V 3ø	NEMA 3R
RTS-N-200K3	200	277/480V 3ø	NEMA 3R
RTS-N-400A3	400	120/240V 1ø	NEMA 3R
RTS-N-400G3	400	120/208V 3ø	NEMA 3R



HTS 200-800 AMP

Designed for simple monitoring, operation and maintenance. Common controls and LED lights are conveniently located on the front door panel. All components are front adjustable and removable for serviceability. HTS transfer switches can only be used with GUARDIAN Elite commercial series models OT080 thru OT150.

Model	Amps	Volts	Enclosure Type
HTS-N-200K1 (1 or 3)	200	277/480V 3ø	NEMA 1 or 3R
HTS-N-400G1 (1 or 3)	400	120/208V 3ø	NEMA 1 or 3R
HTS-N-400K1 (1 or 3)	400	277/480V 3ø	NEMA 1 or 3R
HTS-N-600A3 (1 or 3)	600	120/240V 1ø	NEMA 1 or 3R
HTS-N-600G3 (1 or 3)	600	120/208V 3ø	NEMA 1 or 3R
HTS-N-600K3 (1 or 3)	600	277/480V 3ø	NEMA 1 or 3R
HTS-N-800A3 (1 or 3)	800	120/240V 1ø	NEMA 1 or 3R

	GUARDIAN			GUARDIAN QuietSource			GUARDIAN QuietSource- Steel					GUARDIAN QuietSource - Aluminum			
Model	5240	5241	5242	5243	5244	5210T	5324T	5259T	5261T	53XXT**	5211	5325	5260	5262	
Rated Power (LPG/NG) kW	7/6	10/9	13/13	16/15	16/15	20/20	25/25	35/35	45/43	45/43	20/20	25/25	35/35	45/43	
Voltage (single phase)	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	120/240V	
Amps @ 120/240V LPG	58.3/29.2	83.3/41.6	108.3/54.2	133.3/66.6	133.3/66.6	166.6/83.3	208.3/104.2	291.6/145.8	375/187.5	375/187.5	166.6/83.3	208.3/104.2	291.6/145.8	375/187.5	
Amps @ 120/240V NG	50.0/25.0	75/37.5	108.3/54.2	125/62.5	125/62.5	166.6/83.3	208.3/104.2	291.6/145.8	358.3/179.2	358.3/179.2	166.6/83.3	208.3/104.2	291.6/145.8	358.3/179.2	
Engine/Alternator RPM	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	3600/3600	
Engine	OHVI 410cc	OHVI 530cc	OHVI 992cc	OHVI 992cc	OHVI 992cc	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.	
Fuel Consumption @ full load															
Liquid propane cu. ft/hr (gal/hr)	54 (1.47)	70 (1.93)	80 (2.18)	92 (2.51)	92 (2.51)	125 (3.44)	183 (5.0)	222.3 (6.1)	286 (7.86)	286 (7.86)	125 (3.44)	183 (5.0)	222.3 (6.1)	286 (7.86)	
Natural gas cu. ft/hr	119	156	220	245	245	315	442	560	720	720	315	442	560	720	
Whisper-Test™	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Automatic Transfer Switch	100 Amp	100 Amp	100 Amp	100 Amp	100 Amp	100 Amp	200 Amp	200 Amp	200 Amp	200 Amp*	Not included.	Not included.	Not included.	Not included.	
Circuits Protected	8	10	12	16	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Dimensions (L x W x H")	48 x 24 x 28.25	48 x 24 x 28.25	48 x 24 x 28.25	48 x 24 x 28.25	48 x 24 x 28.25	71 x 29.5 x 36	71 x 29.5 x 36	77 x 33.5 x 45	77 x 33.5 x 45	77 x 33.5 x 45	71 x 29.5 x 36	71 x 29.5 x 36	77 x 33.5 x 45	77 x 33.5 x 45	
Generator Weight (lbs.)	336	375	425	445	430	1020	1025	1393	1414	1454	930	935	1276	1297	
Enclosure	Steel	Steel	Steel	Steel	Aluminum	Steel	Steel	Steel	Steel	Steel	Aluminum	Aluminum	Aluminum	Aluminum	

*Includes a 200 Amp transfer switch with service disconnect. **California air standard compliant model.

COMMERCIAL SERIES

COMMERCIAL / LIGHT INDUSTRIAL



60-150kW

WHISPER-TEST



CONTINUOUS STANDBY POWER FOR EVERY APPLICATION!

GUARDIAN Elite™ commercial series standby generators offer restaurants, gas stations, offices and other businesses maximum blackout protection for minimal investment. Depending on the length of the power outage, these models can pay for themselves in just one outage.

Models range in output from 60 to 150kW and offer a choice of voltage outputs with higher amperage transfer switches. Transfer switches sold separately. See required transfer switches in the chart below.

- Liquid-cooled engine based models produce more electricity for greater needs
- **Whisper-Test:** Patent-pending self-test feature makes the GUARDIAN Elite 50% quieter
- **Superior Paint:** Tough paint finish for unmatched durability
- **Safe Design:** UL listed / automatic voltage regulation and electronic governor for sensitive electronics
- **Continuous Fuel:** Models run on natural gas or liquid propane gas

GUARDIAN Elite Commercial					
Model	QT060	QT080	QT100	QT130	QT150
Rated Power LPG/NG kW	60	80	100	130	150
Rated Amps @ 60Hz					
120/240V, 1ø	250	333	417	542	625
120/208V, 3ø	208	278	347	451	521
277/480V, 3ø	90	120	150	195	226
Engine/Alternator RPM	3600/3600	3600/3600	3600/3600	3000/1800	3600/3600
Engine	3.0L V-6	4.6L V-8	5.4L V-8	6.8L V-10	6.8L V-10
Fuel Consumption					
LPG cu. ft/hr (gal/hr)	376.3 (10.34)	442 (12.1)	553 (15.2)	719 (19.8)	830 (22.8)
NG cu. ft/hr	960	1100	1374	1786	2061
Dimensions (L" x W" x H")*	89 x 34 x 48	116 x 37 x 55	116 x 37 x 55	116 x 37 x 55	116 x 37 x 55
Generator Weight (lbs.)	1650	2010	2311	2873	2666
Required Transfer Switch	RTS 100-400	HTS 200-400	HTS 200-600	HTS 200-600	HTS 400-800

*Height does not include measurement of exhaust stacks.

PORTABLES

RESIDENTIAL / COMMERCIAL / INDUSTRIAL



15000 / 17500 Watt

THE MOST POWERFUL PORTABLE ON THE MARKET!

Where a standby generator is not practical, the GUARDIAN Ultra Source® boasts the highest running watts in its class: 15,000 and 17,500 watts. Surge watt ratings are 22,500 and 26,250 respectively.

No other portable generator can offer you engine life and durability like the OHVI® engine. Overhead Valve Industrial (OHVI) engines are engineered for efficient, uninterrupted performance to get the job done - whether you're powering up your house or your jobsite.

- **Breakthrough Design:** Creates the greatest starting power to run the items that matter most (15kW starts up to 4-ton A/C unit, 17.5kW starts a 5-ton A/C unit)
- **Generac OHVI® Industrial Engine:** The longest life design and most horsepower in its class
- Automatic idle control
- Automatic voltage regulation
- 16 gallon fuel tank
- Electronic governor
- Wheel kit & heavy duty lifting eye
- Preventative maintenance kit
- Electric start - quick start
- Circuit breaker protected outlets
- 10 hour run-time at 1/2 load
- 13" all terrain tires
- Starting battery



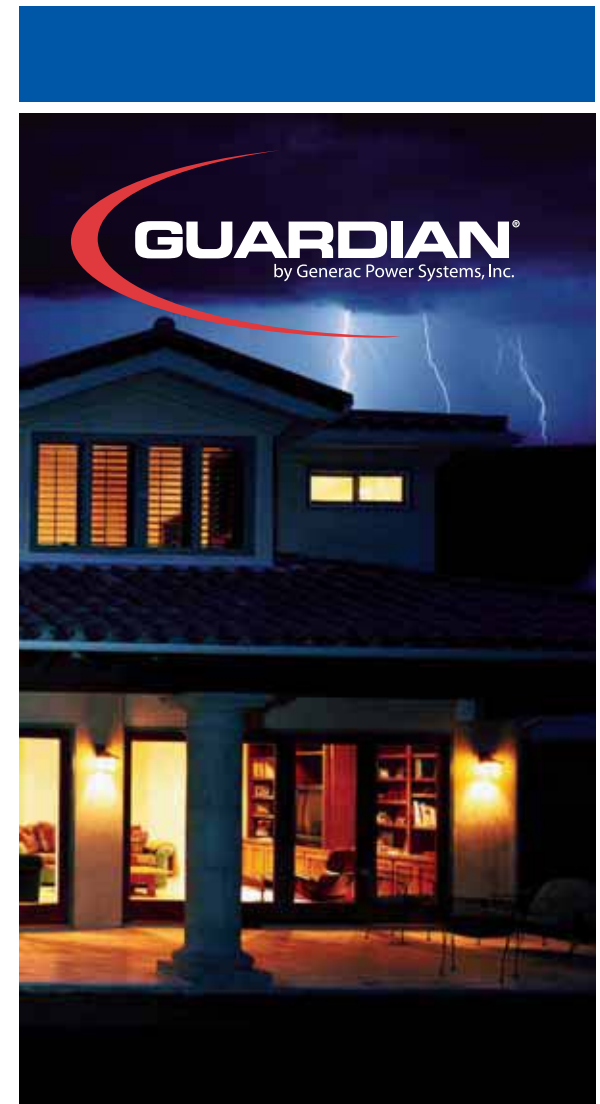
*17,500 Watt (Model 4583) includes:

- 16 circuit, 50 Amp pre-wired manual transfer switch
- 15' outdoor power cord
- External connection box



GUARDIAN UltraSource		
Model	4582	4583*
Rated Watts	15000	17500
Surge Watts	22500	26250
Voltage (single phase)	120/240V	120/240V
OHVI Engine Type	992cc V-Twin	992cc V-Twin
Weight	450	525

*Includes 50 Amp Manual Transfer Switch



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NEW REVOLUTIONARY DESIGNS