

GENERATOR Purchase Decision Guide

GENERATORS

RUNNING (Rated) Watts vs. SURGE (Starting) Watts

- RUNNING (rated) watts produced by a generator represents the amount of continuous power output
- SURGE (starting) watts produced by a generator represents the amount of temporary bursts of power output required by common tools and appliances for 2-3 seconds during start up.

Generator Energy Conversions

When calculating power requirements use the following:

- ✓ Volts x Amps = Watts
- ✓ Amps / Watts = Volts
- ✓ Watts / Volts = Amps

Generator Wattage Selection Guide

- Using the Generator Wattage Reference Chart, select the items you wish to power at the same time. Write the corresponding **RUNNING** (Rated) watts and **SURGE** (Starting) Watts in the designated wattage worksheet columns below.
- Add up the **RUNNING** Watts of the items you wish to power at the same time and enter the total in the **Total Running Watts** space **(A)**.
- Select the individual tool or appliance with the highest number of **SURGE** (Starting) watts. Enter this number in the Total **SURGE** Watt space (B). Add the numbers in Spaces (A) & (B). Write your **Total Watts Required** in space (C).

EXAMPLE ONLY						
TOOL OR APPLIANCE	RUNNING	SURGE				
TOOL OR APPLIANCE	WATTS	WATTS				
1. Refrigerator	200	1200				
2. Television	300	300				
3. Lights (7 x 75 watts)	525	525				
4. Furnace Fan 1/4HP	600	1000				
5. Microwave - 800 watt	1300	1400				
6. Radio	200	200				
7. Laptop Computer	250	250				
8						
9						
10						
	/^\	/D)				

Using the example above, you should purchase a generator with a SURGE (Starting) Watts rating of 4775 Watts or greater.

(A) (B)

3375 + 1400

Total Highest SURGE WATT Item

(C) 4775

YOUR GENERATOR POWER NEEDS						
TOOL OR APPLIANCE	RUNNING WATTS	SURGE WATTS				
1						
1 2 3 4 5 6 7						
3						
4						
5						
6						
8 9						
9						
10						
	(A)	(B)				
Complete the chart above using the Wattage Selection Guide Instruc-	Total	+ Highest				
tions to determine the	RUNNING	SURGE WATT				

Generator wattage

applications.

requirements for your

WATTS

(C)

Item



GENERATORS

HEATING & COOLING	HOME	RUNNING Watts	SURGE Watts	FARM & SHOP	RUNNING Watts	SURGE Watts
Air Conditioner-Window Air Conditioner-Window 13,000 BTU 1800 2800 Battery Charger - 15 Amp 380 380 Air Conditioner-Central 10,000 BTU 1500 3000 Battery Charger-100A +300A 2400/7800 2400/7800 Air Conditioner-Central 24,000 BTU 3800 5000 Cooler - Walk In 1100 1800 Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Fan - Box Type - 20" 120 180 Milker - 2HP 1000 2300 Fan - Ceiling Type 800 1200 Space Heater(Gas) \$50,000 BTU 600 600 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$50,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$50,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 250 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Furnace Fa		(Rated)				(Starting)
Air Conditioner-Window Air Conditioner-Window 13,000 BTU 1800 2800 Battery Charger - 15 Amp 380 380 Air Conditioner-Central 10,000 BTU 1500 3000 Battery Charger-100A +300A 2400/7800 2400/7800 Air Conditioner-Central 24,000 BTU 3800 5000 Cooler - Walk In 1100 1800 Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Fan - Box Type - 20" 120 180 Milker - 2HP 1000 2300 Fan - Ceiling Type 800 1200 Space Heater(Gas) \$50,000 BTU 600 600 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$50,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$50,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$150,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Space Heater(Gas) \$10,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 250 750 Furnace Fan-(Gas or Fuel Oil) - 1/2HP 875 2350 Furnace Fa	HEATING & COOLING			Air Communication 211D	2000	2000
Air Conditioner-Window 13,000 BTU		1500	2200	·		
Air Conditioner-Central 10,000 BTU 1500 3000 Battery Charger-100A +300A 2400/7800 2400/7800 Air Conditioner-Central 24,000 BTU 3800 5000 Cooler - Walk In 1100 1800 Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Fan - Box Type - 20" 120 180 Milker - 2HP 1000 2300 Fan - Ceiling Type 800 1200 Space Heater(Gas)50,000 BTU 400 600 Furnace Fan-(Gas or Fuel Oil)-1/2HP 875 2350 Space Heater(Gas)150,000 BTU 600 1000 Radiant Heater 1300 1300 Welder - 200 Amp AC 9000 9000 HOUSEHOLD - GENERAL Leg Sag Sag Sag Cheater(Gas)150,000 BTU 600 1000 HOUSEHOLD - GENERAL Leg Sag Sag Sage Heater(Gas)150,000 BTU 600 1000 JOB SITE JOB SITE JOB SITE JOB Sage Heater(Gas)150,000 BTU 600 1000 400<				, , ,		
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Air Conditioner-Central 40,000 BTU 6000 6700 Electric Fencing - 25 miles 250 250 Fan - Box Type - 20" 120 180 Milker - 2HP 1000 2300 Fan - Ceiling Type 800 1200 Space Heater(Gas)50,000 BTU 400 600 Furnace Fan-(Gas or Fuel Oil)-1/4HP 600 1000 Space Heater(Gas)90,000 BTU 500 750 Furnace Fan-(Gas or Fuel Oil)-1/2HP 875 2350 Space Heater(Gas)150,000 BTU 600 1000 Radiant Heater 1300 1300 Welder - 200 Amp AC 9000 9000 PMODE SITE **POSSITE** **Cell Phone Charger** Cell Phone Charger*	·			•	-	-
Fan - Box Type - 20"	·					
Fan - Ceilling Type	,			-		
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Note						
Cell Phone Charger				, , , ,		
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Gaming Systems - XBOX, Playstation 40 40 Belt Sander 1200 2400 DVD Player 350 350 Circular Saw 7-1/4 inch 1400 2300 Electric Blanket 150 150 Concrete Vibrator 2HP 1560 1560 Garage Door Opener 700 1400 Concrete Mixer - 1HP 1000 3000 Hair Dryer 1800 1900 Demolition Hammer 1260 1260 Hot Water Heater - Electric 4500 4500 Drain Cleaner 250 250 Incandescent Light -75 W 75 75 Drill 1/2 inch, 5.4 Amp 900 900 Radio 200 200 Miter Saw - 10 inch 1800 1800 Sump Pump 1/2HP 1050 2150 Paint Sprayer - Airless 600 1200 Satellite Receiver 250 250 Planer / Jointer - 6 inch 1800 1800 Security System 500 500 Rotary Hammer Drill 1200 300 Television 300 300 <td< td=""><td>HOUSEHOLD - GENERAL</td><td></td><td></td><td>JOB SITE</td><td></td><td></td></td<>	HOUSEHOLD - GENERAL			JOB SITE		
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DVD Player 350 350 Circular Saw 7-1/4 inch 1400 2300	<u>-</u>	40	40	Belt Sander	1200	2400
Electric Blanket			350	Circular Saw 7-1/4 inch	1400	2300
Garage Door Opener 700 1400 Concrete Mixer - 1HP 1000 3000 Hair Dryer 1800 1900 Demolition Hammer 1260 1260 Hot Water Heater - Electric 4500 4500 Drain Cleaner 250 250 Incandescent Light -75 W 75 75 Drill 1/2 inch, 5.4 Amp 900 900 Radio 200 200 Miter Saw - 10 inch 1800 1800 Sump Pump 1/2HP 1050 2150 Paint Sprayer - Airless 600 1200 Satellite Receiver 250 250 Planer / Jointer - 6 inch 1800 1800 Security System 500 500 Rotary Hammer Drill 1200 3000 Television 300 300 Table Saw - 10 inch 1800 4500 VCR 100 100 Work Light - Halogen 1000W 1000 1000 KITCHEN & LAUNDRY Blender 400 850 Desktop Computer 800 800 Coffee Maker	·			Concrete Vibrator 2HP	1560	1560
Hair Dryer				Concrete Mixer - 1HP	1000	3000
Hot Water Heater - Electric	•			Demolition Hammer	1260	1260
Incandescent Light -75 W 75 75	•			Drain Cleaner	250	250
Radio 200 200 Miter Saw - 10 inch 1800 1800 Sump Pump 1/2HP 1050 2150 Paint Sprayer - Airless 600 1200 Satellite Receiver 250 250 Planer / Jointer - 6 inch 1800 1800 Security System 500 500 Rotary Hammer Drill 1200 3000 Television 300 300 Table Saw - 10 inch 1800 4500 VCR 100 100 Work Light - Halogen 1000W 1000 1000 VITCHEN & LAUNDRY Blender 400 850 Desktop Computer 800 800 Coffee Maker 600 600 Fax Machine 800 800 Deep Freezer 500 1500 Laptop Computer 250 250 Dryer Electric 5400 6750 Monitor - LCD 30 30 Dryer Natural Gas 700 2000 Printer 600 600 Dishwasher 250 550 RECREATION				Drill 1/2 inch, 5.4 Amp	900	900
Sump Pump 1/2HP 1050 2150 Paint Sprayer - Airless 600 1200 Satellite Receiver 250 250 Planer / Jointer - 6 inch 1800 1800 Security System 500 500 Rotary Hammer Drill 1200 3000 Television 300 300 Table Saw - 10 inch 1800 4500 VCR 100 100 Work Light - Halogen 1000W 1000 1000 KITCHEN & LAUNDRY Blender 400 850 Desktop Computer 800 800 Coffee Maker 600 600 Fax Machine 800 800 Deep Freezer 500 1500 Laptop Computer 250 250 Dryer Electric 5400 6750 Monitor - LCD 30 30 Dryer Natural Gas 700 2000 Printer 600 600 Dishwasher 250 550 RECREATIONAL RECREATIONAL Microwave Oven 650 watt 1000 1200 Cell Phone	_				1800	1800
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Coffee Maker 600 600 Fax Machine 800 800 Deep Freezer 500 1500 Laptop Computer 250 250 Dryer Electric 5400 6750 Monitor - LCD 30 30 Dryer Natural Gas 700 2000 Printer 600 600 Dishwasher 250 550 RECREATIONAL Fax Machine 800 800 Printer 600 600 600 600 600 600 Dishwasher 250 550 RECREATIONAL 600 600 Microwave Oven 650 watt 1000 1200 CD/DVD Player 100 100 Microwave Oven 1000 watt 1500 1750 Cell Phone Charger 25 25 Refrigerator or Freezer 200 1200 Grill - Electric 1650 1650						
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Deep Freezer 500 1500 Laptop Computer 250 250 Dryer Electric 5400 6750 Monitor - LCD 30 30 Dryer Natural Gas 700 2000 Printer 600 600 Dishwasher 250 550 RECREATIONAL Frying pan 1500 1500 CD/DVD Player 100 100 Microwave Oven 650 watt 1500 1750 Cell Phone Charger 25 25 Refrigerator or Freezer 200 1200 Grill - Electric 1650 1650	Coffee Maker	600	600			
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Dryer Natural Gas 700 2000 Printer 600 600 Dishwasher 250 550 RECREATIONAL RECREATIONAL RECREATIONAL 0	Drver Electric	5400	6750			
Dishwasher 250 550 Frying pan 1500 1500 Microwave Oven 650 watt 1000 1200 CD/DVD Player 100 100 Microwave Oven 1000 watt 1500 1750 Cell Phone Charger 25 25 Refrigerator or Freezer 200 1200 Grill - Electric 1650 1650						
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Refrigerator or Freezer 200 1200 Grill - Electric 1650 1650	Microwave Oven 1000 watt	1500	1750	·	25	25
0						
1111 Tally Nation 1 and	Slow Cooker	200	200	Inflator Pump Rafts/Mattress	50	150
Toaster Oven 1200 1200 Lighting-Outdoor String Type 250 250				•		
Washing Machine 1200 1200 TV Portable - 13 inch 150 150	Washing Machine	1200				