

S SIERRA EQUIPMENT INC.

Premier Technology®

Emergency Power 2012 Equipment



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What do we do now?

We all have become accustomed to have refrigeration, air conditioning, hot water, appliances, lights, security system and all the conveniences at home that make living in South Florida a very pleasant experience. Weather forecasters agree that South Florida is likely heading for years of intense storms. Last year hurricane Katrina and Wilma showed all of us how disruptive, uncomfortable, inconvenient and dangerous a hurricane can be. Without a doubt the word **Power Outage** makes all of us worry and uneasy. Of course, those words means no burglar alarm, darkness, cold showers, spoiled food, no television, or internet, no wonder we all get on edge....Forget about the average 10 days of powerless misery. The solution gets rid of the word **Outage** and keeps the word **Power**. **Power** will make the best of a bad situation. We can provide you with **partial or total Power Solutions for all your residential or commercial needs.**

Sierra Equipment Inc. offers quality reliable **WhisperWatt™** heavy duty industrial diesel standby generators. Why diesel....We recommend diesel engines due to their longevity, lower fuel and maintenance cost. Fuel cost per kW produced is normally fifty percent less than a gas unit. A 10 kW propane fueled generator consumes 3 gallons of propane while diesel will only consume 1 gal per hour. Another important consideration is on the storage of fuel during a hurricane, is an issue of fire and personal safety. # 2 Diesel rates excellent due to its high flash point, is the least flammable fuel source, easily obtained in a service station or on site fuel truck delivery.

Most of the time people are not aware of how the **generator noise** impacts on others. Just how do you tell your neighbor that his generator is making your life miserable? ...As a member of the generator-privileged class, what is one to do to maintain peace with the neighbors? There is a polite way to run a generator without alienating everyone around you. All our generators have the ultra quiet sound attenuated enclosures (62-71 dBA) that will allow 24 hour operation during a power outage. For those who demand the best the MQ Power's outstanding **Ultra-silent Series** generators are the world's quietest power source available (56 to 63 dBA). Just listen...your everyday conversation is louder than the **Ultra-Silent Series.**

A Power Generator is a big investment, but a necessary one. During these climate changes in South Florida, it will bring you and your family peace of mind, the comfort and security, we all deserve.

7 kW Standby Mobile or Stationary Power

This Whisperwatt diesel-powered portable generator delivers dependable performance for a variety of residential, industrial and commercial applications. Compact, sound-attenuated package (65dBA) with full instrumentation, including hour meter and warning lights for oil, water and battery



Ordering Number
Skid Mount
MQDA7000SSA
Wheel Kit for MQDA7000SS
MQWKT225A

Sound Level db(A).....65
Full Load at 23 Feet

Generator Specifications:

Standby Output	KW
Single Phase voltage @ 240V.....	7
Single Phase voltage @ 115V.....	7
Amperage:	
Single Phase Amperage @ 240V.....	25
Single Phase Amperage @ 115V.....	25 (2 sets)
Frequency.....	60 Hertz
Voltage Regulation (No load to Full load).....	5%

Receptacle Specifications:

120/240 volts output at 50 amps
120/240 volts output at 30 amps.
120 volts output at 30 amps
120 volts output at 20 amps. G.F.C.I. protected

Engine Specifications:

Manufacturer.....	Kubota
Model.....	Z482
Cylinders.....	2
Gross Engine Power Output.....	12.5
RPM.....	3600
Battery	12 35Ah x

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

Fuel System Specifications:

Diesel fuel consumption (GPH)	
½ load.....	0.48
Fuel load.....	0.80
Approximate run time (Hours)	
½ load.....	15
Full load.....	10
Fuel Capacity (Gal).....	12.5

Weights and Dimensions:

Approx.Net Wt. Dry.....527 Lbs.
Dimensions:
45”L x 26”W x 35”H

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.



11 kW Super-Silent Standby Mobile or Stationary Power

WhisperWatt generators come fully equipped with just about every control and convenience feature imaginable. The DCA10SPX4C is a 11 kW Single Phase generator with a 1.0 power factor and 120/240 volt output. It features an electronic governor control; an easy to read analog control panel; a sound attenuated, weatherproof steel housing that is lockable and designed with a single point lifting eye.



Ordering Number
Skid Mount
MQDCA10SPXU4C
Highway Legal Trailer w/ 30Gal. Fuel Cell
MQTRLRMPXF

Generator Specifications:

Standby Output	KW
Single Phase voltage @ 240V.....	11
Single Phase voltage @ 115V.....	11
Amperage:	
Single Phase Amperage @ 240V.....	41.7
Single Phase Amperage @ 115V.....	41.7 (2 sets)
Frequency.....	60 Hertz
Voltage Regulation (No load to Full load).....	+/- 0.25%

Output Terminal:

UNV Output Lugs . Two Circuits 120V or one circuit 240V

Receptacle Specifications:

120 volts output at 20 amps. G.F.C.I. protected

Engine Specifications:

Manufacturer.....Kubota
Model.....D1503
Emissions.....Tier 4
Cylinders.....3
Gross Engine Power Output.....24.5
RPM.....1800
Battery12V 65Ahx1

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

Sound Level db(A).....61
Full Load at 23 Feet

Fuel System Specifications:

Diesel fuel consumption (GPH)	
½ load.....	0.58
Fuel load.....	0.97
Approximate run time (Hours)	
½ load.....	28 51
Full load.....	17 31
Fuel Capacity (Gal).....	16.4 30

Weights and Dimensions:

Approx.Net Wt. Dry.....1007 Lbs.
Trailer w/30Gal Fuel Cell...470 Lbs.
Dimensions:
55”L x 26”W x 36”H

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.

16.5 kW Super-Silent Standby Mobile or Stationary

WhisperWatt generators come fully equipped with just about every control and convenience feature imaginable. The DCA15SPXU4C generates 16.5 kW standby output. It features a steel, sound attenuated, weatherproof and lockable housing. An electronic governor control maintains steady state 60 Hz. within 0.25% from no load to full load. Its comprehensive analog control panel includes several instruments including an ammeter, frequency meter AC circuit breaker. Highway-legal trailers and auxiliary fuel tanks available.



Ordering Number
Skid Mount
MQDCA15SPXU4C
Highway Legal Trailer w/ 30Gal. Fuel Cell
MQTRLRMPXF

Generator Specifications:

Standby Output	KW
Single Phase voltage @ 240V.....	16.5
Single Phase voltage @ 115V.....	16.5
Amperage:	
Single Phase Amperage @ 240V.....	62.5
Single Phase Amperage @ 115V.....	62.5 (2 sets)
Frequency.....	60 Hertz
Voltage Regulation (No load to Full load).....	+/-0.5%

Output Terminal:

UNV Output Lugs . Two Circuits 120V or one circuit 240V

Receptacle Specifications:

120 volts output at 20 amps. G.F.C.I. protected

Engine Specifications:

Manufacturer.....	Kubota
Model.....	V2203
Emissions.....	Tier 4
Cylinders.....	4
Gross Engine Power Output.....	36.1
RPM.....	1800
Battery	12V 65Ahx1

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

Sound Level db(A).....62
Full Load at 23 Feet

Fuel System Specifications:

Diesel fuel consumption (GPH)	
½ load.....	0.84
Fuel load.....	1.37
Approximate run time (Hours)	
½ load.....	19 36
Full load.....	12 22
Fuel Capacity (Gal).....	16.4 30

Weights and Dimensions:

Approx.Net Wt. Dry.....1266 Lbs..
Trailer w/30 Gal. Fuel Cell...470 Lbs.
Dimensions:
61”L x 26”W x 36”H

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.



22 kW Super-Silent Standby Mobile or Stationary

The DCA20SPXU2 is a 22kW Single Phase generator with 1.0 power factor and 120/240 volt output. Among the many features, it includes a sound attenuated, weatherproof steel housing with an easy to maintain design. A mechanical governor maintains a steady state 60 Hz within 3-5% from no load to full load. It features an auto start stop that allow the generator to start from a remote location. This unit has an easy to read control panel that includes an ammeter, frequency meter, and other analog instrumentation, and highway-legal trailers and auxiliary fuel tanks.



Ordering Number
Skid Mount
MQDCA20SPXU2
Highway Legal Trailer w/ 41Gal. Fuel Cell
MQTRLR50XF

Generator Specifications:

Standby Output KW
Single Phase voltage @ 240/120V.....22
Amperage:
Single Phase Amperage @ 240V.....83A
Single Phase Amperage @ 115V.....83A (2 Sets)
Frequency.....60 Hertz
Voltage Regulation (No load to Full load).....+/- 0.5%
Output Terminal:
UVWO Hard Wire Hookup

Sound Level db(A).....63
Full Load at 23 Feet

Engine Specifications:

Manufacturer.....Isuzu
Model.....AA4LE2
Emissions.....Tier 4
Cylinders.....4
Gross Engine Power Output.....34.3
RPM.....1800
Battery12V 53Ah x 1

Fuel System Specifications:

Diesel fuel consumption (GPH)
½ load.....0.87
Fuel load.....1.58
Approximate run time (Hours)
½ load.....19 47
Full load.....10-3/4 26
Fuel Capacity (Gal).....17 41

Weights and Dimensions:

Approx. Net Wt. Dry.....1412 Lbs.
Trailer w/41 Gal. Fuel Cell...495 Lbs.
Dimensions:
73”L x 30”W x 39”H

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.



37 kW Super-Silent Standby Mobile or Stationary

WhisperWatt generators come fully equipped with just about every control and convenience feature imaginable. The DCA36SPXU2 is a 37.8 Single Phase generator with 1.0 power factor and 120/40 volt output. Among the many features, it includes a sound attenuated, weatherproof steel housing. An electronic governor control maintains steady state 60 Hz within 0.25% from no load to full load. It feature san auto start stop that allows the generator to start from a remote location, Available an internal fuel tank and highway-legal trailers and auxiliary fuel tanks



Ordering Number
Skid Mount
MQDCA36SPXU2
Highway Legal Trailer w/ 53Gal. Fuel Cell
MQTRLR70XF

Generator Specifications:

Standby Output KW
Single Phase voltage @ 240/120V.....37.8
Amperage:
Single Phase Amperage @ 240V.....150A
Single Phase Amperage @ 115V.....150A (2 sets)
Frequency.....60 Hertz
Voltage Regulation (No load to Full load).....+/-0.5%
Output Terminal:
UVWO Hard Wire Hookup .

Engine Specifications:

Manufacturer.....Isuzu
Model.....BB-4JG
Emissions.....Tier IV
Cylinders..... 4
Gross Engine Power Output.....67.1
RPM.....1800
Battery12V 72Ah x 1

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

Sound Level db(A).....65
Full Load at 23 Feet

Fuel System Specifications:

Diesel fuel consumption (GPH)
½ load..... 1.6
Fuel load..... 3.0
Approximate run time (Hours)
½ load.....16 33
Full load.....8.6 17.6
Fuel Capacity (Gal).....26 53

Weights and Dimensions:

Approx.Net Wt. Dry.....2315 Lbs.
Trailer w/53 Gal. Fuel Cell...1200 Lbs.
Dimensions:
78”L x 35”W x 49”H

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.



58 kW Super-Silent Standby Mobile or Stationary

MQ Power's compact and portable single-phase Whisperwatt generators come fully equipped with just about every control and convenience feature imaginable. The DCA56SPX is a 58.8 kW Single Phase generator with a 1.0 power factor and 120/240 volt output. Among the many features, it includes a sound attenuated, weatherproof steel housing. An electronic governor maintains frequency to +/- 0.25% from no load to full load. It features an auto start stop that allows the generator to start from a remote location. Available with internal fuel tank or highway-legal trailer and auxiliary fuel cell..



Ordering Number
Skid Mount
MQDCA56SPXU2
Highway Legal Trailer w/180 Gal. Fuel Cell
MQTRLR85XFH

Generator Specifications:

Standby Output KW
Single Phase voltage @ 240/120V.....58.8
Amperage:
Single Phase Amperage @ 240V.....233A
Single Phase Amperage @ 115V.....233A (2sets)
Frequency.....60 Hertz
Voltage Regulation (No load to Full load).....+/-0.5%
Output Terminal:
UVWO Hard Wire Hookup

Sound Level db(A).....66
Full Load at 23 Feet

Engine Specifications:

Manufacturer.....Isuzu
Model.....FF-4BG1T
Emissions.....Tier 4
Cylinders..... 4
Gross Engine Power Output.....97.9
RPM.....1800
Battery12V 70Ah x 1

Fuel System Specifications:

Diesel fuel consumption (GPH)
½ load..... 2.4
Fuel load..... 4.5
Approximate run time (Hours)
½ load.....16 75
Full load..... 8.8 40
Fuel Capacity (Gal).....40 180

Weights and Dimensions:

Approx.Net Wt. Dry.....3418 Lbs..
Trailer net wt(180 gal).....1450Lbs.
Dimensions:
97”L x 35”W x 55”H

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

WARNING: Do not connect generator to any building's electrical system unless a disconnect switch has been installed.



22 kW Ultra-Silent Standby Mobile or Stationary Power

MQ Power **Ultra-Silent** Generators include all the features of our proven Super Silent generators plus an enhanced airflow design. It uses a cooling system that further reduces noise levels to 11 percent quieter than other units. Other standard features include an integrated 24-hour fuel tank for longer running time and a fluid containment system for added environmental safety. The DCA25USI provides a standby rating of 22 kW. A sound proof housing keeps operating noise levels to 59 db(A). The unit features a mechanical governor that maintains steady state 60 Hz within 3-5% from no load to full load. A comprehensive analog control panel provide instrumentation.



Ordering Number
Skid Mount
MQDCA25US12C
Highway Legal Trailer
MQTRLR25US

Sound Level db(A).....**59**
Full Load at 23 Feet

Generator Specifications:

Standby Output KW
Single Phase voltage @ 240/120V.....15.3
3 Phase voltage @ 240/480V.....22
Amperage:
Single Phase Amperage @ 240V.....27.8 (4 Wire)
Single Phase Amperage @ 115V.....55.6 (4 Wire)
3 Phase Amperage @ 240V.....60
3 Phase Amperage @ 480V.....30
Frequency.....60 Hertz
Voltage Regulation (No load to Full load).....+/-0.5 %
Output Terminal:
UVWO Hard Wire Hookup w/ Voltage Selector Switch

Fuel System Specifications:

Diesel fuel consumption (GPH)
½ load..... 0.85
Fuel load..... 1.56
Approximate run time (Hours)
½ load.....49
Full load..... 26.7
Fuel Capacity (Gal).....42

Engine Specifications:

Manufacturer.....Isuzu
Model..... AA-4LE2
Emissions..... Tier 4
Cylinders..... 4
Gross Engine Power Output.....34.3
RPM.....1800
Battery12V 53Ah

Weights and Dimensions:

Approx.Net Wt. Dry.....1809 Lbs..
Trailer net wt.....335 Lbs.

Dimensions:

70”L x 31”W x 50”H

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.



22 kW Ultra-Silent Standby Mobile or Stationary Power

MQ Power **Ultra-Silent** XF Generators include all the features of our proven Super Silent generators plus an enhanced airflow design. It uses a cooling system that further reduces noise levels to 11 percent quieter than other units. Other standard features include a fluid containment system for added environmental safety and an even larger fuel tank than the standard US model. The DCA25USXFC provides a standby rating of 22 kW. A sound proof housing keeps operating noise levels to 56db(A). It features a 106 gallon fuel tank that provides 73.61 hours of run time. The unit has a mechanical governor that maintains steady state 60 Hz within 3-5% from no load to full load. A comprehensive analog control panel provides instrumentation. Available with highway-legal trailer



Ordering Number
Skid Mount
MQDCAUS12XFC
Highway Legal Trailer
MQTRLR45US2H

Sound Level db(A).....56
Full Load at 23 Feet

Generator Specifications:

Standby Output KW
Single Phase voltage @ 240/120V.....15.3
3 Phase voltage @ 240/480V..... 22
Amperage:
Single Phase Amperage @ 240V.....27.8 (4 Wire)
Single Phase Amperage @ 115V.....55.6 (4 Wire)
3 Phase Amperage @ 240V.....60
3 Phase Amperage @ 480V.....30
Frequency.....60 Hertz
Voltage Regulation (No load to Full load).....+/- 0.5%
Output Terminal:
UVWO Hard Wire Hookup w/ Voltage Selector Switch

Fuel System Specifications:

Diesel fuel consumption (GPH)
½ load..... 0.72
Full Load.....1.44
Approximate run time (Hours)
½ load..... 124.7
Full load..... 73.6
Fuel Capacity (Gal).....106

Weights and Dimensions:

Approx.Net Wt. Dry.....2200 Lbs.
Trailer Wt..... 860 Lbs.
Dimensions:
70”L x 31”W x 50”H

Engine Specifications:

Manufacturer.....Isuzu
Model.....AA-4LE2
Cylinders..... 4
Gross Engine Power Output.....34.3
RPM.....1800
Battery12V 53Ah x 1

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.

37 kW Ultra-Silent Standby Mobile or Stationary Power

MQ Power **Ultra-Silent** XF Generators include all features of our proven Super Silent generators plus enhanced airflow design. It uses a cooling system that further reduces noise levels to 11 percent quieter than other units. Other standard features include a fluid containment system for added environmental safety and even larger fuel tank than the standard US model. The DCA45US12IXF provides a standby rating of 37.8 kW. A sound proof housing keeps operating noise levels to 57 db(A). It features a 198 gallon fuel tank that provides 76.15 hours of run time. The unit has a mechanical governor that maintains steady state 60 Hz within 3-5% from no load to full load. A comprehensive analog control panel provides instrumentation. Available with highway-legal trailer.



Ordering Number
Skid Mount
MQDCA45US12XFC
Highway Legal Trailer
MQTRLR70USH

Sound Level db(A).....57
Full Load at 23 Feet

Generator Specifications:

Standby Output	KW
3 Phase voltage @ 240V.....	37
Amperage:	
Single Phase Amperage @ 240V.....	50 (4 Wire)
Single Phase Amperage @ 115V.....	100 (4 Wire)
3 Phase Amperage @ 240V.....	108
3 Phase Amperage @ 480V.....	54
Frequency.....	60 Hertz
Voltage Regulation (No load to Full load).....	+/-0.5
Output Terminal:	
UVWO Hard Wire Hookup w/ Voltage Selector Switch	

Engine Specifications:

Manufacturer.....	Isuzu
Model.....	BB-4JG1T
Cylinders.....	4
Gross Engine Power Output.....	67.1
RPM.....	1800
Battery	12V 72Ah x 1

Instrumentation:

Full instrumentation including hour meter and warning lights for oil, water and battery

Fuel System Specifications:

Diesel fuel consumption (GPH)	
½ load.....	1.3
Full Load.....	2.6
Approximate run time (Hours)	
½ load.....	152
Full load.....	76.15
Fuel Capacity (Gal).....	198

Weights and Dimensions:

Approx.Net Wt. Dry.....	3461 Lbs..
Trailer Wt.....	1,200 Lbs.
Dimensions:	
82”L x 37”W x 61”H	

WARNING: Do not connect generator to any building’s electrical system unless a disconnect switch has been installed.

Generator Sizing

Depending on your budget, the level of comfort and convenience you desire, we can provide you with the equipment for a complete or partial power solution. We will work with you to survey your needs, from a total automatic standby system with a stationary generator that will power your entire home, to a budget minded portable or mobile unit for your survival appliances and lighting.

Generator Load Size

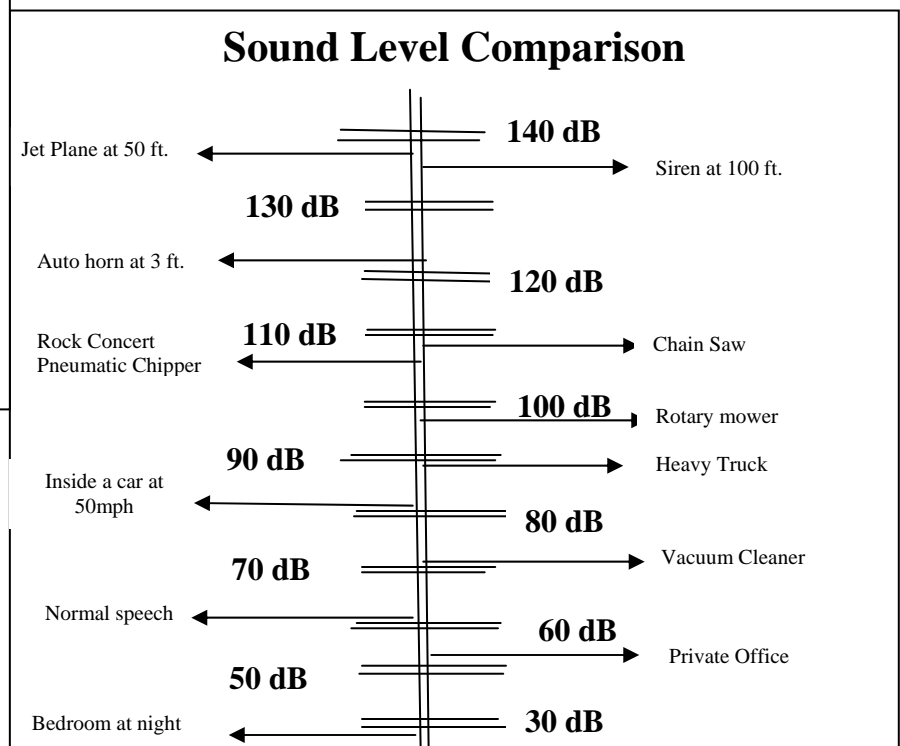
Survival appliances	7 kW	10.5 kW	16.5 kW	20 kW	22 kW	30 kW	37-100 kW
Refrigerator/Freezer	*	*	*	*	*	*	*
Well Pump	*	*	*	*	*	*	*
Security System	*	*	*	*	*	*	*
Lighting	*	*	*	*	*	*	*
Radio/Television	*	*	*	*	*	*	*
Computer	*	*	*	*	*	*	*
Water Heater	(*)	*	*	*	*	*	*
Single Element Table Range	(*)	*	*	*	*	*	*
Electric Range			(*)	*	*	*	*
Central Air			(*)	*	*	*	*
Washing Machine			(*)	*	*	*	*
Microwave Oven			(*)	*	*	*	*
Power to spare for large homes							*

(*) Denotes selective use to generator amps capacity

Generator Noise Level measured from 7 meters using the (A) scale

Model	dBA
MQDA7000SS	65
MQDCA10SPX4C	61
MQDCA15SPX4C	62
MQDCA20SPXU2	63
MQDCA36SPXU2	65
MQDCA56SPXU2	66
MQDCA25US12C	59
MQDCAUS12XFC	56
MQDCA45US12XFC	57

(A) scale: Weighting simulates the frequency response of the Human Ear



Load Calculation Form

Survival Appliance	Average Running Watts	Average Starting Watts	Actual Wattage	Total Wattage on my list
Refrigerator or Freezer	700	2,200		
1 Hp. Well Pump 1-1/2 Hp. Well Pump	1600 2000	4500 6100		
Security System	50	0		
Lighting	as indicated on bulbs.			
Radio	200	0		
Color Television	300	0		
Computer Monitor Printer	800 250 500	0 0 0		
Water Heater (small) Water Heater (Large)	4500 9000	0 0		
Single Element Table Range	1500	0		
Electric Range	9000	0		
8,000-BTU Air Conditioner Central Air Conditioner	740 6250	2,100 12,000		
Washing Machine	1150	2300		
Microwave Oven	700	850		
Clothes Elec. Dryer	6000	8000		

Data, Facts and Formulas

One British thermal units (**Btu**) is the quantity of heat required to raise the temperature of one pound of water of 1 degree Fahrenheit at atmospheric pressure

Btu content of common fuels

	Per Pound	Per Gallon	Per Cubic Foot
Propane	21,591	91,690	2,516
Natural Gas		7,855	1,026
Gasoline	20,930	110,250	
Diesel	18,500	142,800	

Rules of Thumb for Fuel Consumption

Diesel- 1 Gallon per 20 hp per hour
5 Gallons per 100 hp per hour

Natural Gas- 10 Cubic Feet Hour = 1 hp.

Propane Gas- 7 lbs per hour= 10 kW or 13 hp.

20W/50 Oil recommended for **Diesel Engines Only** for Generators on South Florida Weather

Generator Sizing

Watts= Volts x Amps.
Amps= Watts:- Volts

Single Phase

Amps X Volts = Watts
Example: You need 40 amps at 120 volts
40A X 120 V = 4800W or 4.8 kW

Three Phase

Amps X Volts X 1.732 = Volt Amps or VA
(1.732 is the square root of three)
Example: You need 85 amps at 240 volts, 3 phase
85A X 240 V X 1.732 = 35,333 VA
35,333 VA / 1000 = 35.3 kVA
To convert 3 phase kVA to kW, multiply kVA times the power factor or 0.8
35.3 kVA X 0.8 = 28.2 kW

Reactive Loads

Simply total the wattage of the items to be connected to the generator
Example: You have twenty-nine 100 watt light bulbs, 29 X 100 = 2,900 watts or 2.9 kW

Inductive Loads

For items such as drills and other power tools that can be carried by hand, take the total wattage and multiply it by two. Example: It takes 1500 watts or 1.5 kW to run a 2" submersible pump, use a 3 kW generator.

Large Inductive Loads

For items such as bolted down motors, multiply running wattage by three.
Example: A conveyor belt takes 8 kW to run, use a 24 kW generator to start it.