



Cat/Class .....215-3423  
 Make .....**MI-T-M**  
 Model .....**1100 iMSO**  
 Max AC Output ...1,100 W  
 Rated AC Output ...900 W  
 HP/Displacement ..2.0/86 CC  
 Width .....11.6"  
 Length .....19.3"  
 Height .....17.5"  
 Weight .....45.2 lbs  
 Fuel Capacity ....0.93 gal  
 Amps (120 V) ....9.2  
 Continuous (120 V) 7.5  
 Decibel Rating ...59.0



Cat/Class .....215-3423  
 Make .....**MI-T-M**  
 Model .....**1700 iMSO**  
 Max AC Output ...1,650 W  
 Rated AC Output ...1,350 W  
 HP/Displacement ..2.8/86 CC  
 Width .....11.6"  
 Length .....19.3"  
 Height .....17.5"  
 Weight .....45.2 lbs  
 Fuel Capacity ....1.1 gal  
 Amps (120 V) ....13.8  
 Continuous (120 V) 11.2  
 Decibel Rating ...59.0



Cat/Class .....215-3423  
 Make .....**KUBOTA**  
 Model .....**AV1600**  
 Prime KW .....1.6  
 Width .....16.3"  
 Length .....21.3"  
 Height .....19.3"  
 Weight .....88 lbs  
 Fuel Capacity ....3.7 gal  
 Amps (120 V) ....13.3  
 Continuous .....11.7  
 Fuel Type .....Gasoline

For your convenience, see pages 47 & 48 for Generator Selection Chart. See page 50 for Useful Electrical Formulas.

**GENERATOR SIZING CHART - Amps x Volts = Watts**

CONSTRUCTION APPLICATIONS	Wattage Requirements*	
	Starting	Running
Air Compressor - 1/2 hp	2000	1000
Air Compressor - 1 hp	4500	1500
Air Compressor - 1 1/2 hp	6000	2200
Air Compressor - 2 hp	7700	2800
Concrete Vibrator - 3/4 hp	1900	850
Concrete Vibrator - 1 hp	2500	1100
Concrete Vibrator - 2 hp	3600	1800
Concrete Vibrator - 3 hp	4800	2400
Chain Saw - 12", 1.5 hp	-----	900
Chain Saw - 14", 2.0 hp	-----	1200
Cultivator - 1/3 hp	700	1400
Drill - 1/4"	400	300
Drill - 3/8"	650	475
Drill - 1/2"	900	750
Drill - 1"	1250	1000
Floodlight	-----	1000
Heat (radiant, portable)	-----	1300
Heater (liquid fuel) - 50,000 BTU	675	225
Heater (liquid fuel) - 100,000 BTU	1260	420
Heater (liquid fuel) - 150,000 BTU	1875	625
Impact Wrenches - 1/2"	750	600
Impact Wrenches - 3/4"	900	750
Impact Wrenches - 1"	1400	1200
Mixer, 3 1/2 Cubic Feet	2300	1000
Pressure Washer - 1 hp	3600	1200
Pressure Washer - 1.5 hp	4300	1450
Rebar Cutter - 1"	-----	2800
Sander - Belt	2600	1200
Sander - Disc	2600	1200
Sander - Orbital	2600	1200
Saw - 6" Circular	2200	950
Saw - 7 1/4" Circular	2600	1200
Saw - 8 1/4" Circular	3000	1500
Saw - 10" Circular	3900	2000
Saw - Jig	400	300
Saw - Cutoff	3500	2500
**Sump Pump	1300	400
**Sub Pump - 1/3 hp, 115V	4000	690
**Sub Pump - 1/2 hp, 115V	4715	920
**Sub Pump - 1 hp, 115V	7500	1440
**Sub Pump - 1 hp, 230V	7200	715

\* Estimated    \*\* These items usually require slightly higher starting amperage

**The 1-2-3 Method for Generator Sizing**

1. Resistance loads - For lights, heaters and similar appliances total the running wattage and multiply it by 1. Example: 30 light bulbs @ 100W each is equal to 3.0 KW - use a 3.6 generator.
2. Small motors - For drills and other small power tools simply total the running wattage and multiply by 2. Example: A 1" drill runs at 1KW - use a 2.5 KW generator
3. Large motors - For submersible pumps, table saws or grinders total the running wattage and multiply by 3. Example: a submersible pump runs at 1,500 watts - use a 6KW generator.

# Generators - Portable



Cat/Class .....215-3411  
 Make .....**MQ**  
 Model .....**GA25H**  
 Prime KW .....2.5  
 Width .....19.6"  
 Length .....16.1"  
 Height .....18.25"  
 Weight .....114 lbs  
 Fuel Capacity .....3.6 gal  
 Amps (120 V) .....20.8  
 Continuous .....18.3  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) . . .45



Cat/Class .....215-3411  
 Make .....**KUBOTA**  
 Model .....**AV2500**  
 Prime KW .....2.5  
 Width .....17.3"  
 Length .....21.3"  
 Height .....19.7"  
 Weight .....99 lbs  
 Fuel Capacity .....3.7 gal  
 Amps (120 V) .....18.3  
 Continuous .....18.3  
 Fuel Type .....Gasoline



Cat/Class .....215-3411  
 Make .....**WACKER**  
 Model .....**G 2.5A**  
 Horsepower (max) .....5.5  
 Power KW (max) .....4.1  
 Width .....17.5"  
 Length .....27"  
 Height .....17"  
 Weight .....94 lbs (dry)  
 Fuel Capacity .....0.975 gal  
 AC Voltage .....120 V  
 Amps (AC Circuit Breaker) . . .20  
 Continuous AC amps . . .18.8 A  
 Starting System .....Recoil  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) . . .0.45

Cat/Class .....215-3412  
 Make .....**WACKER**  
 Model .....**G 3.7A**  
 Horsepower (max) .....8  
 Power KW (max) .....6.0  
 Width .....23"  
 Length .....27"  
 Height .....21"  
 Weight .....150 lbs (dry)  
 Fuel Capacity .....5.2 gal  
 AC Voltage .....120/240 V  
 Amps (AC Circuit Breaker) . . .16-2 pole  
 Continuous AC amps . . .27.6/13.8  
 Starting System .....Recoil  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) . . .0.65

Cat/Class .....215-3415  
 Make .....**WACKER**  
 Model .....**G 5.6A**  
 Horsepower (max) .....11  
 Power KW (max) .....8.2  
 Width .....23"  
 Length .....27"  
 Height .....21"  
 Weight .....168 lbs (dry)  
 Fuel Capacity .....5.2 gal  
 AC Voltage .....120/240 V  
 Amps (AC Circuit Breaker) . . .24-2 pole  
 Continuous AC amps . . .44.6/22.3  
 Starting System .....Recoil  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) . . .0.86

For your convenience, see pages 47 & 48 for KVA/KW Amperage Chart and page 49 for Generator Sizing Chart.

## Useful Electrical Formulas

To Obtain	Single Phase	Three Phase
Kilowatts	$\frac{V \times A}{1,000}$	$\frac{1.732 \times V \times A \times PF}{1,000}$
KV-A	$\frac{V \times I}{1,000}$	$\frac{1.732 \times V \times I}{1,000}$
Horsepower required when generator KW unknown (If generator efficiency is unknown, use 0.93)	$\frac{KW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{KW}{0.746 \times \text{Efficiency (Generator)}}$
KW input when motor HP known (if motor efficiency unknown, use 0.85 x HP)	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$
Amperes when motor HP known	$\frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$	$\frac{HP \times 0.746}{1.732 \times V \times PF \times \text{Efficiency}}$
Amperes when KW known	$\frac{KW \times 1,000}{V \times PF}$	$\frac{KW \times 1,000}{1.732 \times V \times PF}$
Amperes when KV-A known	$\frac{KV-A \times 1,000}{V}$	$\frac{KV-A \times 10,000}{1.732 \times V}$

Alternating Current (AC) -An electric current that rapidly reverses its direction at regularly recurring intervals - approximately 100 times per second. Travels long distances with little loss. The purpose of a generator is to deliver AC electricity from an alternative source

PF (Power factor) - Ratio of the actual (real power) to the apparent power. Power Factor = Actual power (WATTS)/Apparent power (VA) or KW/KVA

# Generators - Portable



Cat/Class .....215-3412  
 Make .....**MQ**  
 Model .....**GA3.6 HZ**  
 Prime KW .....3.6  
 Width .....25.1"  
 Length .....19.6"  
 Height .....18.8"  
 Weight .....165 lbs  
 Fuel Capacity .....5.0 gal  
 Amps (120 V) .....30  
     Continuous .....26.6  
 Amps (240 V) .....15  
     Continuous .....13.3  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) ... 0.45



Cat/Class .....215-3412  
 Make .....**KUBOTA**  
 Model .....**AV3800**  
 Prime KW .....3.8  
 Width .....17"  
 Length .....23"  
 Height .....21"  
 Weight .....148 lbs  
 Fuel Capacity ....4.7 gal  
 Amps (120 V) ....31.6  
     Continuous .....27.5  
 Amps (240 V) ....15.8  
     Continuous .....13.8  
 Fuel Type .....Gasoline



Cat/Class .....215-3419  
 Make .....**KUBOTA**  
 Model .....**AV4500**  
 Prime KW .....4.5  
 Width .....17.3"  
 Length .....23.4"  
 Height .....21.8"  
 Weight .....154 lbs  
 Fuel Capacity ....4.7 gal  
 Amps (120 V) ....37.5  
     Continuous .....30.5  
 Amps (240 V) ....18.7  
     Continuous .....15.4  
 Fuel Type .....Gasoline

For your convenience, see page 47 & 48 for KV-A/KW Amperage Chart and page 49 for Generator Sizing Chart.



Cat/Class .....215-3414  
 Make .....**KUBOTA**  
 Model .....**AV5500**  
 Prime KW .....5.5  
 Width .....19.9"  
 Length .....27.6"  
 Height .....23.8"  
 Weight .....216 lbs  
 Fuel Capacity ....5.3 gal  
 Amps (120 V) ....40  
     Continuous .....36  
 Amps (240 V) ....20  
     Continuous .....18  
 Fuel Type .....Gasoline




Cat/Class .....215-3404  
 Make .....**MQ**  
 Model .....**GA6 HZR**  
 Prime KW .....6.0  
 Width .....25.75"  
 Length .....20.25"  
 Height .....18.8"  
 Weight .....198 lbs  
 Fuel Cap .....5 gal  
 Amps (120 V) ....50  
     Continuous .....41.6  
 Amps (240 V) ....25  
     Continuous .....20.8  
 Fuel Type .....Gasoline  
 GPH (@ rated cap) ... 0.90




Cat/Class .....215-3417  
 Make .....**KUBOTA**  
 Model .....**AV6500B**  
 Prime KW .....6.5  
 Width .....18.5"  
 Length .....27.4"  
 Height .....23.5"  
 Weight .....220 lbs  
 Fuel Capacity ....5.3 gal  
 Amps (120 V) ....54.1  
     Continuous .....45.2  
 Amps (240 V) ....27  
     Continuous .....22.5  
 Fuel Type .....Gasoline


# Generators - Portable

Cat/Class	.....215-3421
Make	..... <b>KUBOTA</b>
Model	..... <b>GL6500S</b>
Fuel	.....Diesel
Prime KW	.....6.5
Towable	.....NO
Width	.....23.1"
Length	.....42.1"
Height	.....25.4"
Weight	.....518 lbs
Fuel Capacity	.....5.0 gal
Amps (120 V)	.....50
Continuous	.....50
Amps (240 V)	.....25
Continuous	.....25



Cat/Class	.....215-3415
Make	..... <b>MQ</b>
Model	..... <b>GA9.7 HZ</b>
Type	.....Portable or Towable
Prime KW	.....9.7
Width	.....22.25"
Length	.....32.5"
Height	.....32"
Weight	.....329 lbs
Fuel Capacity	.....10 gal
Amps (120 V)	.....80
Continuous	.....70
Amps (240 V)	.....40
Continuous	.....35
Fuel Type	.....Gasoline
GPH (@ rated cap)	.....1.48



Cat/Class	.....215-3415
Make	..... <b>WACKER</b>
Model	..... <b>GS 9.7V</b>
Horsepower (max)	.....18
Power KW (max)	.....13.4
Width	.....25"
Length	.....32"
Height	.....24"
Weight	.....218 lbs (dry)
Fuel Capacity	.....7.5 gal
AC Voltage	.....120/240 V
Amps (AC Circuit Breaker)	...39, 2 pole
Continuous AC amps	...78/39
Starting System	.....12 V Electric
Fuel Type	.....Gasoline
GPH (@ rated cap)	.....1.6

For your convenience, see page 47 & 48 for kV-A/kW Amperage Chart and page 49 for Generator Sizing Chart. See page 50 for Useful Electrical Formulas.



Cat/Class	.....215-3401
Make	..... <b>MI-T-M</b>
Model	..... <b>3200 iMSO</b>
Max AC Output	.....3,200 W
Rated AC Output	.....2,800 W
HP/Displacement	...7.0/211 CC
Width	.....18.9"
Length	.....21.0"
Height	.....22.9"
Weight	.....130 lbs
Fuel Capacity	.....3.7 gal
Amps (120 V)	.....26.7
Continuous (120 V)	...23.3
Decibel Rating	.....58.0



Cat/Class	.....215-3402
Make	..... <b>MI-T-M</b>
Model	..... <b>4300 iMSO</b>
Max AC Output	.....4,300 W
Rated AC Output	.....3,800 W
HP/Displacement	...9.0/265 CC
Width	.....20.7"
Length	.....21.0"
Height	.....24.3"
Weight	.....163 lbs
Fuel Capacity	.....4.2 gal
Amps (120 V)	.....35.8
Continuous (120 V)	...31.7
Decibel Rating	.....62.0

Helpful Generator Rental Questions:  
 What is the application?  
 What voltage will be required?  
 Single phase? Three phase?  
 Amperage required?  
 Motor starting?

Extras You May Need:  
 Cable or cords?  
 Distribution panels?  
 Transfer switches  
 Ground rods?  
 Fuel tanks?

See page 50 for Useful Electrical Formulas.