

# FREEMAN

## ELECTRICAL SERVICES USAGE GUIDE

The following wattages are approximate and are provided to help you estimate your power usage. To assist in estimating we recommend that you refer to the name plate or stamp usually located on the back or bottom of any electrical apparatus and order the corresponding outlet for each piece of equipment to avoid tripping/power outages during the event.


The formula for wattage is voltage x amperage (120 volt x 1 amp = 120 watts),  
5 - 100 watt light bulbs = (5x100 = 500 watts)

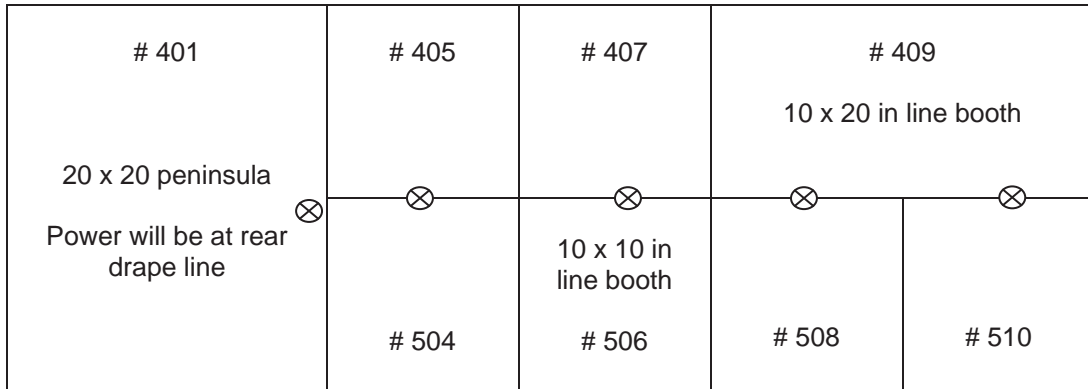
	WATTAGE		WATTAGE
Blender	475-1000	Imprinter for T-Shirts	2000
Can Opener	500	Iron	700-1100
Card Reader (credit) / Lead Retrieval	100	Juicer - Single	500
Cash Register	100-200	Juicer - Double	1000
Coffee Pot - Household Size	600-1200	Laminator	2000
Coffee Pot - Large Brewer	1500-2000	Lights with Freeman Rental Booths	200 each
Computer - Monitor (independent)	120-200	Meat Slicer	500-1000
Computer - Desktop (monitor & CPU)	200-900	Microwave Oven	500-2000
Computer - Laptop	100-300	Mixer	500-1000
Computer Printer - Dot Matrix	100-500	Photocopier	dependent upon size - may require 208 volt
Computer Printer - Laser	400-1000	Pizza Oven (small)	30amp/120 volt Special Connection
Crock Pot	200-1000	Popcorn Maker	2000
DVD Player	50-100	Projector (dependent upon size)	1000
Electric Frying Pan	1200-2000	Refrigerator - Small	400
Fax Machine	1000	Refrigerator - Full Size	750
Flat Screen TV - 32" to 50"	1000	Sewing Machine	1000
Food Processor	500-2000	Steamer	2000
Glue Gun	300	Stereo (amplifier)	100-500
Griddle	1500-2000	Television	100-500
Hair Dryer	1000-2000	Toaster	1000
Heat Lamps (per lamp)	250	Toaster Oven	1500
Heater (portable)	1500-2000	Vacuum Cleaner	1500
Hot Plate Single	1000	VCR	100
Hot Plate Double	1500-2000	Water Cooler - Cold Water	1000
Hot Water Heater	30amp/208 volt/Single Phase	Water Cooler - Hot/Cold Water	2000



# SAMPLE LAYOUTS

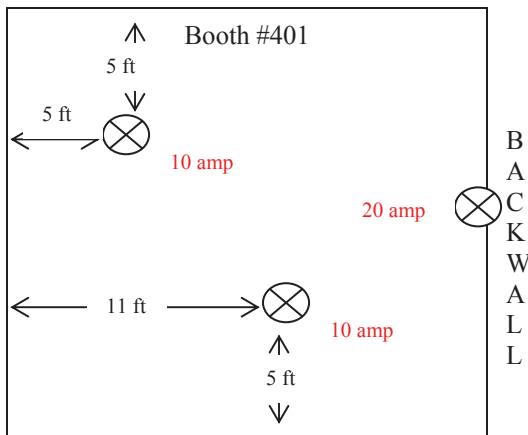
## IN LINE BOOTHS

Power is run or dropped to in line booths along the back walls or drape line of multi booth sections. The “main power locations” therefore are always located at the back of in line and peninsula booths. Outlets may not be in the exact center of the back wall. 120 volt outlets are shared by back to back booths. Example: Outlet = 

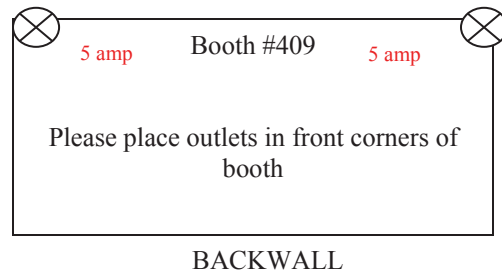


Electrical layouts are required whenever an outlet is needed at any other location within the booth except for the back wall. Exact measurements and/or comments that clearly indicate outlet locations **must be included**. Examples based on above floor plan:

20 x 20 Peninsula – Booth # 401  
Order = 2-10 amp, 1-20 amp outlets



10 x 20 In Line – Booth # 409  
Order = 2 x 5 amp outlets



## ISLAND BOOTHS

Electrical layouts are always required for island booths and **must include** the following information:

### 1. Main Drop.

Since there is no back wall in an island, the exhibitor supplies the location of the main drop, whether one or multiple outlets are ordered. When it will be the point from which power will be distributed to other outlets in the booth, a panel or other piece of electrical equipment (no larger than? x? x?) will be installed at the main drop. For this reason, it is recommended that main drops be located in a closet, under a table/desk or in another area that keeps it out of sight. Measurements must be provided to the main drop.

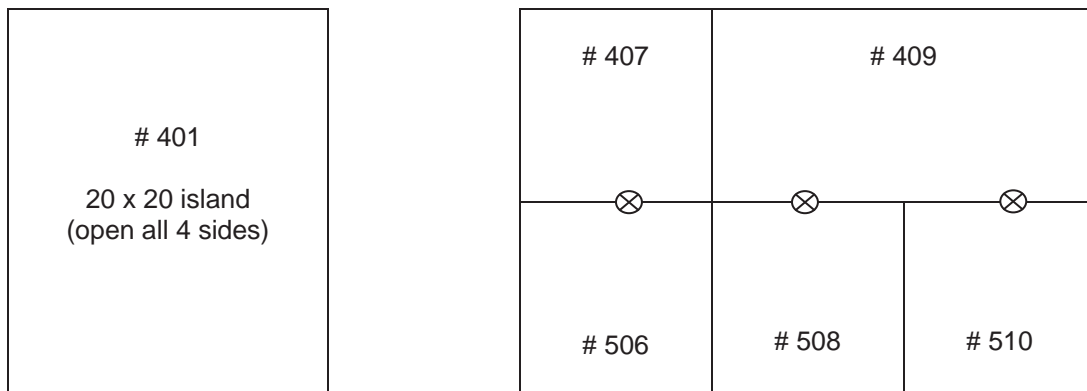
### 2. Location and load of all outlets.

Again, dimensions must be provided to all satellite outlets along with the load of each outlet. It is best to indicate voltage, phase and amperage for all outlets once an order exceeds 120 volt service.

### 3. Booth orientation.

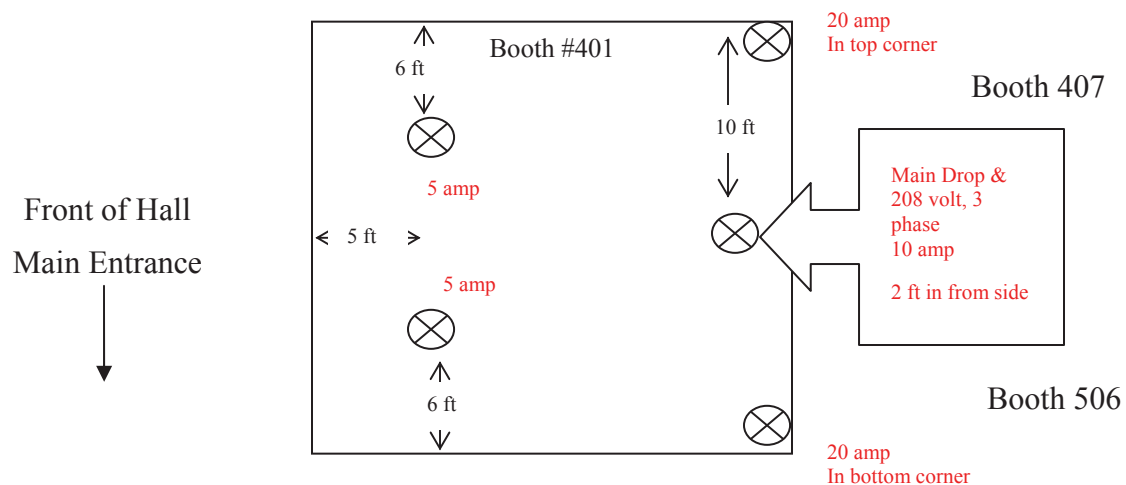
Providing reference points such as surrounding aisle and/or booth numbers defines how an island booth is oriented to the overall show floor plan. In other words, which side is which? It is best to draw your layout relative to the show floor plan so that both are facing the same direction. Examples:

Section of show floor plan



20 x 20 Island – Booth # 401

Order = 1 x 208 volt, 3 phase, 10 amp + 120 volt, 2 x 20 amp + 2 x 5 amp outlets



# FREEMAN

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Las Vegas, NV 89118  
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FreemanLasVegasES@freeman.com

**DISCOUNT PRICE  
DEADLINE DATE  
NOVEMBER 10, 2017**

INCLUDE THE FREEMAN METHOD OF  
PAYMENT FORM WITH YOUR ORDER

NAME OF SHOW: **POWER-GEN International 2017 / December 5-7, 2017**

COMPANY NAME: \_\_\_\_\_ BOOTH #: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_ PHONE #: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

For Assistance, please call 702-579-1700 to speak with one of our experts.

For fast, easy ordering, go to [www.freeman.com](http://www.freeman.com)

## ELECTRICAL OUTLETS (Double Price for 24 Hour Service)

Power includes delivery of the service to one location at the rear of the booth in peninsula and inline booths. Please see Electrical Labor Order Form for rates and instructions if you require outlets in other locations, have lights or electrical items to hang or erect, have orders for power of 208v or higher, or have other electrical requirements.

### 110/120 VOLT

	QTY Show	QTY 24 Hr.	Discount Price	Standard Price	TOTAL
500 Watts (5 amps)	_____	_____	141.50	212.25 = \$	_____
1000 Watts (10 amps)	_____	_____	249.75	374.65 = \$	_____
2000 Watts (20 amps)	_____	_____	328.00	492.00 = \$	_____

### 208 VOLT SINGLE PHASE (Labor Required for Connection)

20 Amps	_____	_____	617.25	925.90 = \$	_____
30 Amps	_____	_____	737.25	1,105.90 = \$	_____
60 Amps	_____	_____	971.75	1,457.65 = \$	_____
100 Amps	_____	_____	1,277.00	1,915.50 = \$	_____
200 Amps	_____	_____	2,359.00	3,538.50 = \$	_____

### 208 VOLT THREE PHASE (Labor Required for Connection)

20 Amps	_____	_____	829.25	1,243.90 = \$	_____
30 Amps	_____	_____	988.75	1,483.15 = \$	_____
60 Amps	_____	_____	1,298.50	1,947.75 = \$	_____
100 Amps	_____	_____	1,713.00	2,569.50 = \$	_____
200 Amps	_____	_____	2,578.50	3,867.75 = \$	_____
400 Amps	_____	_____	4,711.50	7,067.25 = \$	_____

Transformer to Boost 208V to Approx. 230V - \$7.25 per Amp (20 Amp Min.)

Qty \_\_\_\_\_ Amps \_\_\_\_\_ = \$ \_\_\_\_\_

### 480 VOLT THREE PHASE (Labor Required for Connection)

20 Amps	_____	_____	990.00	1,485.00 = \$	_____
30 Amps	_____	_____	1,188.00	1,782.00 = \$	_____
60 Amps	_____	_____	1,556.50	2,334.75 = \$	_____
100 Amps	_____	_____	2,052.50	3,078.75 = \$	_____
200 Amps	_____	_____	3,095.00	4,642.50 = \$	_____

### SPECIAL LIGHTING (Price Includes Power & Labor for Installation)

Single Light Stand	_____	_____	158.75	238.15 = \$	_____
Double Light Stand	_____	_____	246.00	369.00 = \$	_____
4' Track with 3 Lights	_____	_____	269.25	403.90 = \$	_____
Arm Light	_____	_____	178.50	267.75 = \$	_____
Overhead Quartz Light*	_____	_____	405.50	608.25 = \$	_____

\* Overhead quartz lights include labor to install and first focus

\* May require labor and/or lift at additional charge. Please contact FreemanLasVegasES@freeman.com for estimated charges.

For single or double light stand, price includes installation along the side rails of an inline booth. Placement elsewhere will require additional labor and materials.

Extension cords and power strips are available for rental at the Freeman Service Desk.

(412890)

## ADDITIONAL INFORMATION

### FOR ADVANCE PAYMENT PRICE

Your order with full payment along with a floor plan indicating main power location and distribution points, if applicable, must be received prior to:

**DEADLINE DATE OF:  
NOVEMBER 10, 2017**

### MULTIPLE OUTLET LOCATIONS / ISLAND BOOTHS

A scaled floor plan is required for orders with multiple outlet locations and/or island booths. Detailed examples are provided on the following page. If a power location or main drop in an island booth is not provided prior to show move-in, a location will be determined by Freeman in order to maintain delivery schedules. Relocation of the service will be charged on a time and material basis.

### ISLAND BOOTHS

For island booths with no labor ordered, there is a 1/2 hour minimum installation charge and a 1/2 hour minimum dismantle charge.

### INLINE AND PENINSULA BOOTHS

Power will be placed in the back of the booth unless otherwise specified

### 24 HOUR SERVICES

If an uninterrupted power supply is required for the full duration of the show, please order 24 hour power. Electricity is turned on 30 minutes prior to show opening and turned off 30 minutes after show closes on show days. Power will be turned off immediately after final show closing. If you require power outside actual show hours, special arrangements should be made in advance. Additional charges may apply.

### SEPARATE OUTLETS

Separate outlets should be ordered for each piece of equipment and/or each power location.

### HANGING SIGNS

Show site prices will apply if your hanging sign is not received in advance at the warehouse prior to the warehouse shipping deadline date.

### CANCELLATION

A 50% refund will be applied to electrical services cancelled after installation. Refunds will not be issued for materials and/or labor charges related to the installation.

### OVERHEAD POWER

If you require your power from overhead, additional materials and labor may be incurred. Please contact FreemanLasVegasES@freeman.com.

## TOTAL COST

Outlet(s)	\$ _____
Lighting	\$ _____
Tax	\$ <u>N/A</u>
<b>GRAND TOTAL</b>	\$ _____

FREEMAN electrical

# ELECTRICAL INSTRUCTIONS

## HOW TO CALCULATE YOUR ELECTRICAL REQUIREMENTS:

### For Equipment

All electrical equipment is stamped or labeled with electrical ratings usually found on the back or bottom of the equipment. Verify voltage and either amperage or wattage from the information provided. Standard office and household items operate on 110/120 volt power. Machinery and equipment typically require 208 or 280 volt power.

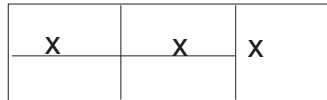
### For Lighting

Verify the wattage of the bulbs in the lights and multiply by the number of bulbs/lights.

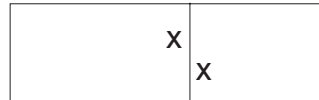
## LOCATION OF POWER IN YOUR BOOTH:

### Inline and Peninsula Booths

Power will be installed in one location, typically on the floor somewhere along the back of the booth, as indicated in the following diagrams. (We cannot guarantee that the outlet will be specifically located in the middle.)



IN-LINE BOOTHS / PENINSULA

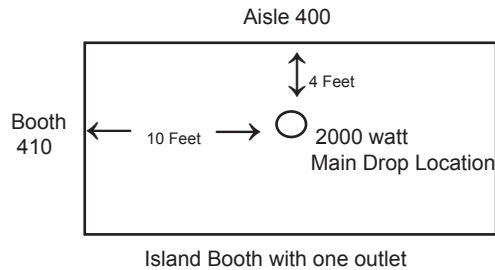


BACK TO BACK PENINSULA

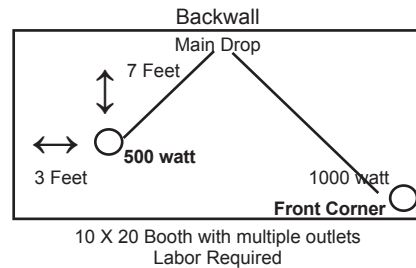
If power is required in locations other than indicated above, secondary distribution will be required and billed on a time and material basis. Please complete and submit an Electrical Labor Order Form with your power order, along with a floor plan as described below.

### Island Booths/Multiple Outlets

Floor plans are always required for Island Booths and orders for multiple outlet locations. The floor plan must indicate booth dimensions, surrounding booth numbers for orientation within the facility, each outlet location, required wattage or amperage and location for main drop. If power location in an island booth is not provided prior to show move-in, a location will be determined by Freeman in order to maintain delivery schedules. Relocation of the service will be charged on a time and material basis. See examples below. A grid is available at [www.freeman.com](http://www.freeman.com) to print as a basic layout.



Island Booth with one outlet



10 X 20 Booth with multiple outlets  
Labor Required

## OTHER:

1. Labor is required for any and all electrical work over and above the installation of the main power drop. Please see the Electrical Labor Order Form for complete details. Please complete the labor order form.
2. Dismantle labor will be automatically charged at 50% of the installation time and rounded to the nearest half hour.
3. All material and equipment provided by Freeman is for rental purposes only and remains the property of Freeman. All equipment will be removed at the close of the show by Freeman.
4. All equipment, regardless of power source, must comply with Federal, State, and local codes as well as any applicable local recognized electrical authorities and standards. Freeman reserves the right to inspect all electrical devices and connections to ensure compliance with all codes and proper permitting. Freeman is required to refuse connections where the exhibitor wiring is not in accordance with local electrical code and permitting.
5. Standard wall and other permanent building utility outlets or sockets are not part of booth space and may not be used by exhibitors unless electrical services have been ordered.
6. Exhibitors' cords must be a minimum of 14 gauge 3 wire with ground and must be flat when used for floorwork. All multi-outlet devices (eg - power strips) must have circuit protection. All exposed non-current carrying metal parts of fixed equipment, which are liable to be energized, shall be grounded.
7. Exhibitors' equipment will be modified to conform to Freeman receptacles. If an outage is the result of an exhibitor's equipment, then a labor charge may be assessed. Labor and materials to install or change a cord cap or fix an outage will be billed on a time and material basis.
8. Exhibitors with hardwall displays must arrange for power to be installed inside the booth or provide access.
9. Power sharing is not permitted between exhibitors.