

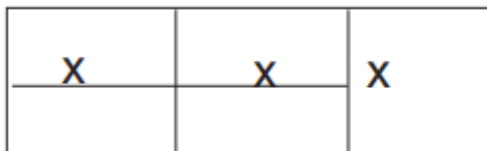
**ELECTRICAL INSTRUCTIONS
 HOW TO DETERMINE ELECTRICAL REQUIREMENTS**

For Equipment

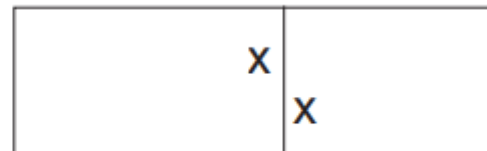
All electrical equipment is stamped or labeled with electrical ratings usually found on the back or bottom of the equipment. Verify voltage and either amperage or wattage from the information provided. Standard office and household items operate on 110/120 volt power. Machinery and equipment typically require 208 or 480 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
 In-Line 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.)
 Labor rates are based on current wage scales and are subject to change in the event of a wage increase after rates have



IN-LINE BOOTHS / PENINSULA

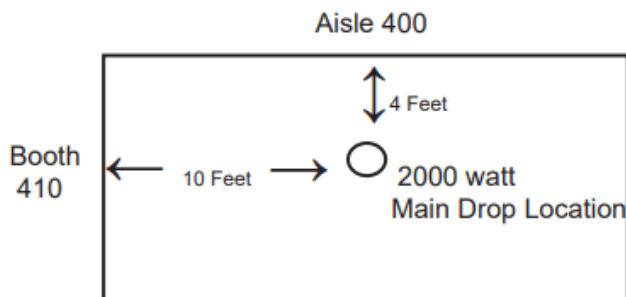


BACK TO BACK PENINSULA

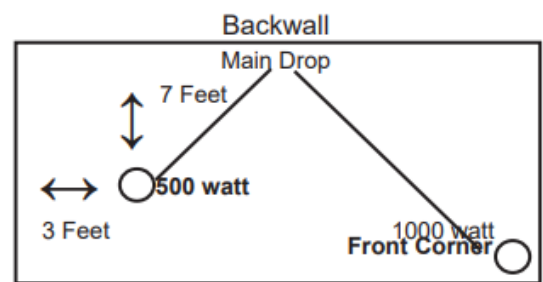
If power is required in locations other than indicated above, secondary distribution will be required and billed on a time and material basis. Please complete and submit an Electrical Labor Order Form with your power order, along with a floor plan as described below.

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 [online](#) to print as a base layout.



Island Booth with one outlet



**10 X 20 Booth with multiple outlets
 Labor Required**



PACK EXPO East
March 18-20, 2024
Pennsylvania Convention Center
Philadelphia, PA

Electrical Instructions

**Discount Deadline:
February 12, 2024**

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 form for complete details. **Please complete the [electrical labor order form](#).**
2. Dismantle labor will be automatically charged at **50% of the installation** time and rounded to the next half hour.
3. All material and equipment provided by PES is for rental purposes only and remains the property of PES. All equipment will be removed at the close of the show by PES.
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. PES reserves the right to inspect all electrical devices and connections to ensure compliance with all codes and proper permitting. PES 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 PES receptacles. If an outage is the result of an exhibitors' 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 hard wall displays must arrange for power to be installed inside the booth or provide access.
9. Power sharing is not permitted between exhibitors.
10. All cords must be installed under carpet/flooring and be installed by electricians. Cords cannot be taped down on top of flooring.
11. **Overhead outlets are available but require additional labor and materials. Please contact your Customer Service Manager if you require dedicated overhead outlets.**
12. **Standard placement outlet rate is only available for linear booths. The outlet must stay in the rear center of the booth. Any change to this outlet will result in additional labor charges.**
13. **Custom Placement: Any outlet that is not center/back of your booth space.**

As an exhibitor, should you choose to provide equipment with electrical connectors to plug directly into PACK EXPO Services electrical equipment, the following list provided will ensure the proper connection:

- 500 Watts to 2000 Watts - Standard U-Ground Amp Cord Cap
- 20/30 Amp 120 / 208 / 480 5 Wire - Hubbell Male - HBL 2511 / L2120P
- 60 Amp 208v & 480v Daniel Woodhead 5 Wire - Male Y560P (Pin & Sleeve)
- 100 Amp 208v & 480v Mini-Cam - Male Leviton 15SDM - Female 15SDF
- 200 / 400 Amp 208v & 480v Large-Cam - Male Hubbell HBL 400PT EKE - Female Hubbell HBL 400CT



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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.

Please note that there is a minimum of 500 watts per outlet. A 500 watt (5 amp) outlet cannot be split. A 1000 watt (10 amp) outlet can only be split one time. A 2000 watt (20 amp) outlet can only be split three times.

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

The following wattages are approximate and are provided to help you estimate your power usage.

ITEM	ESTIMATED WATTAGE
Arm Lights	75-100
Card Reader (credit) / Lead Retrieval	50
Charging Furniture – PES Event Collection	500
Charging Furniture – PES Furnishings	500 per port (1000 max)
Computer.....	250-500
Computer – Laptop	100
Blu-Ray / DVD Player	50-100
Heater (Portable).....	500
Heat Press for T-Shirts	2000
iPhone/Android.....	20
iPad/Tablet	25-50
Kitchen Appliances.....	500-2000
Laminator	2000
LED Panels	500-1000
Projector	1000
Refrigerator (Small).....	500
Refrigerator (Large).....	1000
Steamer	2000
Stereo.....	100-500
Vacuum Cleaner.....	1500
Water Cooler	1000
TVs/Monitors.....	1000 (update television line)
Espresso Machine	30amp/208 volt, single phase