



Electrical Order Form

Please read the *Electrical Service Information* on pages 4-6 before completing this order form

Check one: New Applicant 2011 Returning Vendor/Concessionaire

Vendor Name/Organization: _____

Contact Person: _____

Pre-event Phone: () _____ Event Phone: () _____
(Cell Phone)

Type of Electrical Service Requested

- Single Outlet up to 5 amps (550 watts)
- Single Outlet up to 10 amps (1100 watts)
- Single Outlet up to 20 amps (2200 Watts)
- Double Outlets up to 20 amps each outlet (total 40 amps)
- Travel-trailer plug 30 amps (Plug Type 4)
- 120/208 50 amp single phase **plug-in** service (using one of the plugs listed on page 7, please indicate plug type below)
 - Plug Type 2 – NEMA #CS6365
 - Plug Type 3 – NEMA #14-50
- 50 amp **three phase** hardwired service
- 100 amp **three phase** hardwired service
- 125 amp **three phase** hardwired service

Amperage Requirements

Please provide amperage requirements for running at maximum capacity. If we are not informed of proper requirements, we may not be able to provide service – BE SPECIFIC. You must account for all equipment that will need power.

Total Amps needed for all equipment: _____

Food Concessionaire (only)

Do you use propane or other combustible gases for cooking? _____

Do you need to run a stock truck? _____ If yes: Power requirement Voltage _____

Phase _____ Amps _____ Depending on the power requirements, you may be required to purchase a separate electrical service for your stock truck.

Upon arrival to the event, check in with the Vendor and Concessions Manager to secure a time for the electrician to connect your service, please advise us if you have product that needs electricity for refrigeration at that time.



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General Electrical Service Information

If you have more than one Vending booth/concession stand, you must complete a separate Electrical Order Form for each booth/stand where you want electrical service.

All electrical installations must conform to the Electrical Safety Code of the State of California. Your electrical needs will be determined from the information provided on your application. The Rancho Cordova Fourth of July Festival is not responsible for any loss arising from the Exhibitor/Concessionaires use of premises nor for loss or damages resulting from power interruptions and utility failures. Exhibitors and concessionaires using computers and other sensitive electrical equipment are encouraged to use surge protectors and/or UPS (battery backup) devices to protect your equipment.

Basic electrical service (110 volts 550 watts) is free. Service needs beyond basic service are charged according to the electrical fee schedule on page 6. If, upon arrival, your electrical needs have changed or increased, an additional electrical fee may be charged.

If you have a mobile food stand, you are required have 50 feet of correctly sized cord and the appropriate cord cap (plug) to connect the stand. If you have a stock truck that needs electrical service, you are required to have 100 feet of correctly sized cord and the correct cord cap. Should you arrive at the festival with the wrong sized cords or incorrect cord caps, there may be a delay in getting electrical service. If you require electrical service in excess of 50 amps, you must have a cord that is large enough to carry requested amperage. Hardwire connections for food and amusement concessions is available for a flat fee per connection, see fee schedule on page 6.

You must identify/tag all power cords/hoses for each stand with tape. Please print stand name and stand number on each tag.

A minimum charge of 1 hour for any electrician services beyond standard hook-up will be charged. Labor rate for electrician is \$65.00 per hour. Hardwire hook-up and disconnect are one flat rate.

Electrical Guidelines:

- All cords 50 Amps and less must have plugs.
- 110 volt service must be #12/3 gauge or heavier (for service above 5 amps) wire with NEMA Plug #5-15P (see illustration on page 7 plug type 1.)
- Power cords (extension cords) must be properly sized for the electrical load they carry (see power cord chart on page 5.)
- Power cords are not provided by the Rancho Cordova Fourth of July Festival. Vendors should have at least 50 ft of cord to reach between their booth and the power source.
- All power cords must be grounded (three-pronged.) No two-prong ungrounded extension cords will be permitted on the premises.
- 110 volt 30 amp "travel-trailer plug" service must be #10/3 gauge or heavier wire with NEMA Plug #TT-30 (see illustration on page 8 plug type 4.)
- 208 volt 50 amp service must be #6/4 gauge or heavier wire with either NEMA Plug #CS6365 "California Style" or # 14-50 (see illustration on page 7 plug type 2 or 3.)
- All electrical appliances must be grounded or double insulated. No two-prong ungrounded electrical appliances will be permitted on the premises unless it is clearly marked by the manufacturer that the product is double insulated or has the appropriate UL (Underwriters Laboratory) label.



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- No zip cords are permitted.
- Electrical appliances such as fans, computers, coffee makers, microwave ovens and televisions that are for the convenience of the Exhibitor/Concessionaire and not a “working” part of the exhibit or concession itself may overload the electrical system put into place to service vendors and concessionaires. Power failure in specific areas may occur as a result of these unnecessary loads. If the need arises, you may be required to disconnect any or all unnecessary items.
- All connections to Festival electrical service must be made by Festival personnel.
- Vendors and Concessionaires may be inspected at any time by Festival electricians to ensure overloads do not occur and proper connections are maintained.
- Vendors causing any damage to Festival electrical equipment due to unauthorized electrical equipment or connections will be held liable for the cost of repairs.
- Non-electrical motors (gasoline and diesel powered equipment) are not permitted to be operated without prior written approval of the Rancho Cordova Fourth of July Festival (this includes vehicle mounted generators.)

Power Cords (extension cords)

The Fourth of July Festival discourages the use of 14 gauge (14 AWG) power cords (extension cords.) The Festival does allow 14 gauge cords up to 50 feet long for loads of 5 amps or less. In general, the heavier the cord the better. “Power strips” (a short cord with multiple receptacles and a circuit breaker) used for loads over 5 amps must have a minimum of 12 gauge (12 AWG) cord.

Power Cord Chart

Load	Length	Min. Gauge
≤5 amps	≤50 ft	14 AWG
≤20 amps	≤100 ft	12 AWG
≤20 amps	>100 ft ≤200 ft	10 AWG
≤30 amps	≤50 ft	10 AWG
≤100 amps	≤100 ft	6 AWG

For load and lengths not listed please consult the Festival electrical team or the Vendor and Concessions Manager.

Amperage Calculation

Amperage calculations are critical to successfully determine your power needs. Some electrical devices list their power consumption in watts. To determine your amperage needs you may have to convert watts to amperes (amps.) To do this, use the power calculation:

$$\text{Watts} \div \text{Volts} = \text{Amps}$$

Example:

A 500 watt flood light 500 watts ÷ 110 volt = 4.54 amps

2 150 watt lights (300 watts total) 300 ÷ 110 = 2.72 amps

Regardless of the voltage rating of the electrical device (110V, 115V, 120V, 125, 100-240V) **always** use 110 volts for calculating the amperage of 110 volt lighting and appliances at the Rancho Cordova Fourth of July Festival. Concessionaires and amusement operators using higher voltage equipment or three phase motors, use the voltage listed on your equipment to calculate load.



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Many electrical devices will list their power consumption in terms of "Input" which may look like this:

$$120V \sim 1A \ 60Hz \quad \text{or} \quad 120V \sim 110 \text{ Watts } 60Hz$$

In the first listing the term "1A" indicates the device uses 1 amp. In the second listing you have to convert the term "110 Watts" to amps ($110 \text{ watts} \div 110 \text{ volt} = 1 \text{ amp}$)

Some electrical devices may list their power consumption using milliamps (abbreviated mA) which you will have to convert to amps. A milliamp is equal to one thousandth (10^{-3}) of an ampere. To convert milliamps to amps divide milliamps by 1000. Example:

Input listing: 100-240V ~ 2000mA 50-60Hz

You have to convert the term "2000mA" to amps by dividing 2000mA by 1000

$$2000mA \div 1000 = 2 \text{ amps}$$

Calculate the amperage of each electrical device you will use and then total the amperage of your electrical equipment. That number will determine the electric service you need to order. Example:

If the total amperage of all your equipment is 12 amps you will need to order a 20 amp service.

Electrical Fee Schedule

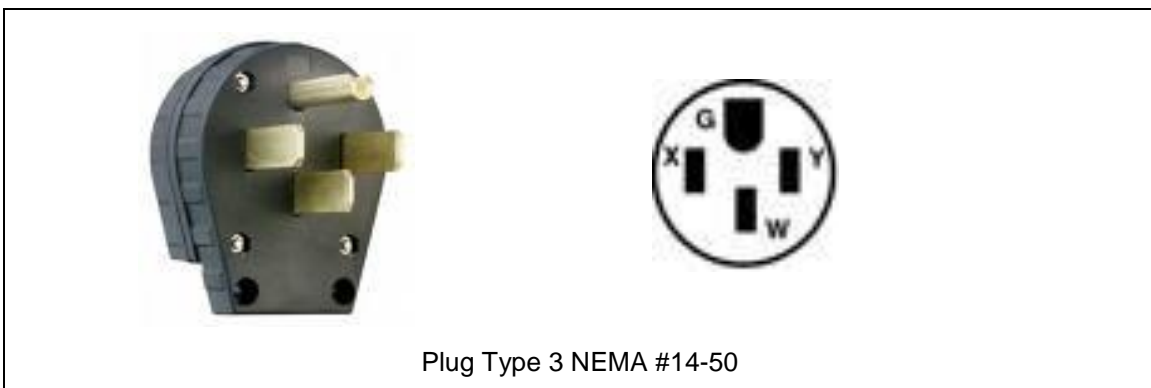
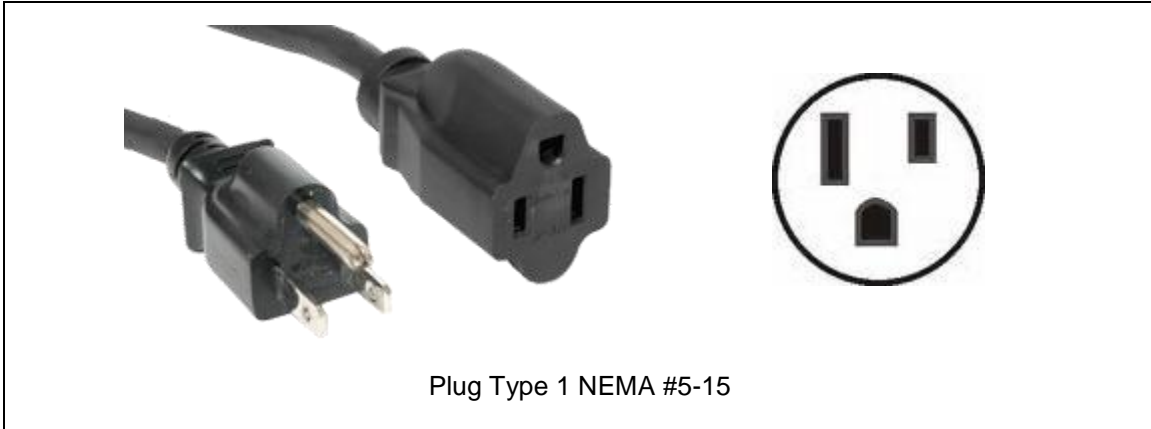
Electrical Service Requested	Electrical Fee
Single Outlet up to 5 amps (550 watts)	Free
Single Outlet up to 10 amps (1100 watts)	\$15
Single Outlet up to 20 amps (2200 Watts)	\$30
Double Outlets up to 20 amps each (total 40 amps)	\$60
Travel-trailer plug-in 30 amp single phase service	\$50
120/208 50 amp single phase plug-in service	\$80
50 amp three phase hardwired service	\$84
+\$65 connection fee	<i>total</i> \$149
100 amp three phase hardwired service	\$168
+\$65 connection fee	<i>total</i> \$233
125 amp three phase hardwired service	\$210
+\$65 connection fee	<i>total</i> \$275



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NEMA PLUG ILLUSTRATIONS



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NEMA PLUG ILLUSTRATIONS



Plug Type 4 NEMA #TT-30