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 Cordova Community Council Rancho Cordova Fourth of July Celebration and festival management are 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 $30. Service needs beyond basic service are charged according to the electrical fee schedule on page 3. 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 are available for a flat fee per connection, see fee schedule on page 6.

You must identify/tag all power cords and 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 4 plug type 1.)

Power cords (extension cords) must be properly sized for the electrical load they carry (see power cord chart on page 2.)
The Rancho Cordova Fourth of July Celebration does not provide power cords. 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 4 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 4 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 they are clearly marked by the manufacturer
that the product is double insulated or has the appropriate UL (Underwriters Laboratory) label.
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.
Festival personnel must make all connections to Festival electrical service.
Festival electricians may inspect vendors and concessionaires at any time 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 Celebration (this includes
vehicles mounted generators.)

**Power Cords (extension cords)**

The Rancho Cordova Fourth of July Celebration 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.

<table>
<thead>
<tr>
<th>Load</th>
<th>Length</th>
<th>Min. Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤5 amps</td>
<td>≤50 ft</td>
<td>14 AWG</td>
</tr>
<tr>
<td>≤20 amps</td>
<td>≤100 ft</td>
<td>12 AWG</td>
</tr>
<tr>
<td>≤20 amps</td>
<td>&gt;100 ft ≤200 ft</td>
<td>10 AWG</td>
</tr>
<tr>
<td>≤30 amps</td>
<td>≤50 ft</td>
<td>10 AWG</td>
</tr>
<tr>
<td>≤100 amps</td>
<td>≤100 ft</td>
<td>6 AWG</td>
</tr>
</tbody>
</table>

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 Celebration. Concessionaires and amusement operators using higher voltage equipment or three phase motors, use the voltage listed on your equipment to calculate load.

Many electrical devices will list their power consumption in terms of "Input" which may look like this:  
120V ~ 1A 60Hz  or  120V ~ 110 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 watts ÷ 110 volt = 1 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 (commonly found on laptop computer power supplies)

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

2000mA ÷ 1000 = 2 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**

<table>
<thead>
<tr>
<th>Electrical Service Requested</th>
<th>Electrical Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Outlet up to 5 amps (550 watts)</td>
<td>$30</td>
</tr>
<tr>
<td>Single Outlet up to 10 amps (1100 watts)</td>
<td>$30</td>
</tr>
<tr>
<td>Single Outlet up to 20 amps (2200 Watts)</td>
<td>$30</td>
</tr>
<tr>
<td>Double Outlets up to 20 amps each (total 40 amps)</td>
<td>$60</td>
</tr>
<tr>
<td>Travel-trailer plug-in 30 amp single phase service</td>
<td>$50</td>
</tr>
<tr>
<td>Service Description</td>
<td>Cost</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>120/208 50 amp single phase plug-in service</td>
<td>$80</td>
</tr>
<tr>
<td>50 amp three phase hardwired service</td>
<td>$85</td>
</tr>
<tr>
<td>50 amp three phase hardwired service + $65 connection fee</td>
<td>total $150</td>
</tr>
<tr>
<td>100 amp three phase hardwired service</td>
<td>$165</td>
</tr>
<tr>
<td>100 amp three phase hardwired service + $65 connection fee</td>
<td>total $230</td>
</tr>
<tr>
<td>125 amp three phase hardwired service</td>
<td>$210</td>
</tr>
<tr>
<td>125 amp three phase hardwired service + $65 connection fee</td>
<td>total $275</td>
</tr>
</tbody>
</table>

NEMA PLUG ILLUSTRATIONS
Electrical Service Information

Plug Type 1 NEMA #5-15

Plug Type 2 NEMA #CS6365 (“California Style”)

Plug Type 3 NEMA #14-50

Plug Type 4 NEMA #TT-30