



**Agriculture  
and Markets**



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**2021 NEW YORK STATE FAIR  
ELECTRICAL SERVICE ORDERS  
August 20 – September 6, 2021**

If you need electrical service for your vending booth/concession stand, you will be required to complete an online Electrical Usage Form.

Your electrical needs will be determined from the information provided on your completed online form. If, upon arrival, your electrical needs have changed or increased, an additional electrical fee will be charged.

The New York State Fair is not responsible for any loss arising from the Exhibitor/Concessionaire's 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

Vendors should be aware of the following guidelines:

1. All electrical work and wiring must meet the standards and requirements of the National Electric Code (NEC) and State of New York.
2. Temporary or portable electrical wiring, including light fixtures and lamp holders, installed inside of tents and concessions, must be securely installed and, where subject to physical damage, must be provided with mechanical protection. If overhead lighting, wiring and equipment cannot be protected solely by relative location (not less than 10 feet above the ground or platform) and such wiring and equipment is subject to physical damage, mechanical protection shall be required for such electrical wiring.
3. All light fixtures and lamp holders for general illumination that are subject to physical damage must be protected from accidental breakage by a suitable fixture or lamp holder with a guard.
4. All 110 volt, single phase, 15 and 20 amp receptacle outlets (2 pole, 3 wire, grounding-type straight-blade devices) that are in use by personnel shall have listed ground-fault circuit-interrupter protection. The ground-fault circuit-interrupter shall be permitted to be an integral part of the attachment plug or located within 12 inches of the attachment plug in the power-supply cord. Listed cord sets with ground fault circuit-interrupter protection incorporated shall be permitted.
5. All cords 50 Amps and less must have plugs. Over 50 amps shall have male camlock connectors.
6. Where flexible cords or cables are used, they must be listed for extra hard usage, wet location and be sunlight resistant.
7. If approved for use, extension cords must be at least 12 gauge, 3 wire, flexible cords designed for heavy duty use. No lightweight (2 wire) extension cords or 'zip' cords (18 gauge or smaller) may be used.
  - Extension cords may not be used as a substitute for permanent electrical outlets. All permanent appliances must be supplied by an electrical outlet.
  - Electric cords may not be run under rugs, through walls, stapled to wood frames, wrapped with any combustible material, used with cracked or checked insulation, placed around sharp corners or be allowed to become warm.
  - Multiple outlet extension cords must be made of thermoplastic electrical boxes connected by heavy duty 12 gauge, 3 wire, flexible cords with approved cable connectors to a grounded (3 prong) plug. No "octopus" plugs or multi-plug adapters are permitted.
  - Extension cords with splices are not permitted.
  - Electrical connections shall not be made through more than one extension cord.
  - Power cords (extension cords) must be properly sized for the electrical load they carry (see power cord chart on next page).
  - Power cords are not provided by the New York State Fair. Vendors should have at least 50 ft. of cord to reach between their booth and the power source.

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- All power cords must be grounded (three-pronged.) No two-prong ungrounded extension cords will be permitted on the premises.
  - Plug strips and cord connectors used outdoors must not be laid directly on the ground and should be placed a minimum of 6 inches above the ground.
8. Areas around electrical panels must be kept clear and unobstructed; 36" in front, 30" on sides and 78" in height
  9. 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.
  10. No zip cords (Lamp cords) are permitted.
  11. Electrical appliances such as fans, air conditioners, 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.
  12. All connections to State Fair electrical service must be made by NYS Fair personnel. Vendors and Concessionaires may be inspected at any time by NYS Fair staff to ensure overloads do not occur and proper connections are maintained.
  13. Vendors causing any damage to NYS Fair electrical equipment due to unauthorized electrical equipment or connections will be held liable for the cost of repairs.
  14. Non-electrical motors (gasoline and diesel powered equipment) are not permitted to be operated without prior written approval of the New York State Fair (this includes vehicle mounted generators).
  15. No electrical work shall be performed by non-fair staff without approval of the Fair Director or Property Manager.
  16. It is suggested that if you have a "knock-down" or sectionalized concession unit, that you have the wiring done such that any wiring between booth sections and wiring to equipment is connected with heavy duty flexible cords and twist lock connectors, or with male and female connectors, after which the sections and equipment may be assembled by unlicensed persons.

If you have questions or wish further information in this regard, you may contact the New York State Fair's, Property Manager, at [Byron.Schlenker@agriculture.ny.gov](mailto:Byron.Schlenker@agriculture.ny.gov) or 315-728-4485 between 7:00 a.m. and 3:00 p.m. (Monday - Friday).

## Power Cords (extension cords):

The NYS Fair discourages the use of 14 gauge (14 AWG) power cords (extension cords.) The Fair does allow 14 gauge cords up to 50 feet long for loads of 5 amps or less. In general, the heavier the cord you use 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	LEGNTH	MIN. GAUGE
≤ 5 amps	≤ 50 ft	14 AWG
≤ 20 amps	≤ 100 ft	12 AWG
≤ 20 amps	> 100 ft	10 AWG
≤ 30 amps	≤ 50 ft	10 AWG
≤ 50 amps	≤ 50 ft	8 AWG
≤ 100 amps	≤ 50 ft	4 AWG

For load and lengths not listed please consult the NYSF Electrical Dept. or the Concessions & Exhibits 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 this power calculation:

**Watts ÷ Volts = Amps**

Example:

- One 500 watt flood light > 500 watts ÷ 110 volts = 4.54 amps
- Two 150 watt lights (300 watts total) > 300 watts ÷ 110 volts = 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 State Fair. 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<sup>-3</sup>) 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 ÷ 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.

## New for the 2021 Fair:

Vendors, Concessionaires and Sponsors are required to complete an Electrical Usage Form in order to gain electricity to their space. All Electrical Usage forms will be completed online through Etix and paid upfront. **AN ELECTRICIAN WILL NOT BE ASSIGNED UNTIL A FORM IS SUBMITTED.**

Please see pricing below:

*\*All forms submitted before the May 1 deadline will receive a discount\**

	<b>ADVANCE Paid by May 1, 2021</b>	<b>Paid After May 1, 2021</b>
<b>120 Volt Single Pole</b>		
20 AMPS	\$60.00	\$72.00
30 AMPS	\$72.00	\$86.50
<b>208/240 Volt Double Pole</b>		
20 AMPS	\$82.50	\$100.00
30 AMPS	\$93.50	\$112.00
50 AMPS	\$104.50	\$125.00
60 AMPS	\$115.50	\$138.00
70 AMPS	\$126.50	\$152.00
100 AMPS	\$154.00	\$185.00
<b>208/240 Volt Three Phase</b>		
20 AMPS	\$99.00	\$119.00
30 AMPS	\$112.00	\$135.00
50 AMPS	\$125.00	\$150.00
60 AMPS	\$138.00	\$165.00
70 AMPS	\$152.00	\$183.00
100 AMPS	\$250.00	\$300.00

*A link to complete an online form will be sent out at a later date.*