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## COVER STORY

### Level One and Two EV Charging Power Options

#### Level One Residential EV Charging

15 Amp level one EV chargers are typically done at home, overnight. You can get an estimated 2-5 miles range per hour with a 120V plug. This level requires no installation using the NEMA 5-15 outlets in your home or office.



#### Level Two EV Charging

20 Amp level two charges are done in both residential or commercial locations using 20 Amp NEMA L6-20 and NEMA L14-20. You can get an estimated 10-60 miles of range per hour with a 240 Volt plug.



30 Amp level two charges are done in both residential or commercial locations using 30 Amp NEMA 10-30 and NEMA 14-30. You can get an estimated 13-25 miles of range per hour with a 240 Volt plug.



50 Amp level two charges are done in both residential or commercial locations using 50 Amp NEMA 6-50 and NEMA 10-50. You can get an estimated 20-30 miles of range per hour with a 240 Volt plug.



*Ranges vary based on the model vehicle and other factors.*



## NEW PRODUCTS

### SS2CB520 and SS2CBF520

This AC WORKS® brand protective adapter is a heavy-duty industrial adapter cable. This 1.5-foot cord is a NEMA SS2-50P to NEMA 5-15/20R. The NEMA SS2-50P is a 50 Amp, 4-prong marine/industrial power distributor plug. The NEMA 5-15/20R is a 15/20 Amp, T-blade female household connector. The cable is an STW, 10 AWG, anti-cold weather cable stays flexible in extreme temperatures. The power source for these adapters is a 50 Amp outlet. The concern about this by many of our customers is that the outlet will carry too much power to their equipment causing it to burn out. The solution we came up with is the 20 Amp breaker. It helps to reduce people's concerns about a power overload to their equipment. The adapter only allows the necessary 20 Amps of power through the adapter. There are two versions available. One with four NEMA 5-15/20R is a 15/20 Amp connectors and the other with one connector.



## TIPS FROM TONY

Remember to set your charging limits to 80% of what the outlet is rated for. Tesla limit is 32 Amps. In order to avoid the charger trying to overdraw and trip your breaker, always remember to manually set your charging limits.

VISIT OUR YOUTUBE CHANNEL TO LEARN MORE ABOUT SETTING CHARGING LIMITS

## FEATURED PRODUCTS

### *E520CB520*

This outlet extender with 20A breaker, is a heavy-duty household adapter cable. This 1-foot cord is a NEMA 5-20P to NEMA 5-15/20R. The NEMA 5-20P is a 20 Amp, 125 Volt elbow-shaped, 90-degree plug. The NEMA 5-15/20R female is a 15/20A, T-blade connector. The cable is an STW, 12/3, anti-cold weather cable that stays flexible in extreme temperatures.



### *E620CB620*

This AC WORKS® brand protective extender is heavy-duty. This 1-foot cord is a NEMA 6-20P to NEMA 6-15/20R. The NEMA 6-20P is a 20 Amp, 3-prong, straight-blade plug. The NEMA 6-15/20R is a 15/20 A, T-blade, 250 Volt female connector. The cable is an STW, 12/3, anti-cold weather cable that stays flexible in extreme temperatures. The cord is super durable and typically used with construction and/or industrial equipment.

## CUSTOMER FAVORITES

### *G2EV1450PT*

When purchasing a new Tesla vehicle you will no longer find the Gen 2 NEMA 14-50 adapter included with the purchase. They recommend you purchase your needed adapters individually. As a convenience to our EV customers, we provided this product allowing you to purchase this adapter in combination with other EV adapters all in one location. This NEMA 14-50 EV adapter works with various AC WORKS® adapters forming any combination you need for powering your EV. It also comes installed with a chip that pre-sets your charging limit to either 24 or 32 Amps, depending on the adapter you purchase. Select the option that is best suited for you.



## AC WORKS® NEWS

### *Mark Downs and Discounts*

As you may remember we started creating new designs for the barrel adapters. As they have been rolling out into production we have been marking down the old style. Save on compact adapters by purchasing the old style (while supplies last).

Visit our website's promotional page to find out more about our discounts and coupons. We are running a BOGO discount on the E520CB520 and the E620CB620 flexible adapters.

We also post our discounts and sales on our Facebook page.

*@acworksconnectors on Facebook*

## INDUSTRY NEWS

### *Cryptomining Power Solutions*

Lately, we received an increasing number of inquiries for power solutions used in crypto mining rigs. As we continue to get them, we wanted to do a little more research and explain what we know so far about the subject. Cryptocurrency is a digital currency where transactions are verified and maintained by a decentralized system. The most popular cryptocurrencies are Bitcoin and Ethereum. These can be traded and invested in with simple phone apps, but the process of mining is done with a custom-made computer. The computer is used to solve cryptographic equations and records data to a blockchain. Once complete, miners are rewarded with some cryptocurrency. To process these computations, the custom computer needs state-of-the-art hardware. No matter how your custom computer is built, they generally need 250V connections to get the computations done.

One of the most common connections we have seen so far from miners is NEMA L6-30. L6-30 outlets are typically not available at your home unless you get one installed. But, you can avoid that installation by using adapters to 250V outlets already in your home.

NEMA 14-50 range outlet: AD1450L630

NEMA 14-30 4-prong dryer outlet: AD1430L630

NEMA 10-30 3-prong dryer outlet: AD1030L630

Another plug we have seen used is the NEMA 6-20. This is an outlet you may have in your home, but in case you don't, there are adapters for it as well.

NEMA 14-50 range outlet: S1450CB620

NEMA 14-30 4-prong dryer outlet: S1430CB620

NEMA 10-30 3-prong dryer outlet: S1030CB620

If you are trying to crypto mine at home but are unsure if your connections will work, please reach out to us so we can help. We would still like to learn more about this subject, too, so any notes or suggestions would be helpful!

[www.ACWORKS.com](http://www.ACWORKS.com)

**WRAP UP**  
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# BEHIND THE SCENES

## HIMSS Exhibition Hours

HIMSS22 has moved back to Florida and is just around the corner. We have shipped our booth out in preparation. You will find HIMSS Exhibition in the Orange County Convention Center. The exhibition hall hours are listed below. You will find us in booth 6465 where you will see products, video demos, and more. Don't forget to stop by the Cordtec Power Corp Booth to get your gift.

**Tuesday, March 15,**

**10:00 - 6:00**

**Wednesday, March 16,**

**9:30 - 6:00**

**Thursday, March 17,**

**9:30 - 4:00**



## SOCIAL MEDIA

### Social Media Channels

#### FACEBOOK

Follow AC WORKS® on Facebook and learn more about our products, find discounts and more. You can also leave us a review on Facebook to help other customers.

#### INSTAGRAM

View products behind the scenes, in development, and during special events.

#### TWITTER

Industry related news and updates, newsletters, and deals are shared here.

#### LINKEDIN

Hiring and company update events.

**E-mail your questions to**  
**info@acconnectors.com**

## UPCOMING SHOWS

### Tradeshow, Expo, and Event News

#### HIMSS22: Orlando, FL | March 14-18, 2022

We will see you at HIMSS22 in Orlando, Florida. **You will find us in booth #6465.** We are excited to see you in Orlando, in March. *The exhibition hall is open from March 15-17th, 2022.*

#### EWPT 2022: Milwaukee, WI | May 10-12, 2022

The Wisconsin Center District and Expo Productions Inc. has announced the Electrical Wire Processing Technology Expo, **Find us in booth #827 this spring.**

## FREQUENT FEATURE

### NEMA 6-20 Circuit Breaker Adapters

AC WORKS® has circuit breaker adapters for NEMA 6-20 EV Chargers (BMW or Nissan Leaf) they have a rating of 20 Amps and 220 Volts. You can use these adapters on higher outlet outputs like the NEMA 14-50 or NEMA 14-30.

If something goes wrong, for example, your onboard computer tries to draw more than the required 20 Amps, the breaker will trip, and the red button will pop out. Figure out the problem and have that fixed. Then pop the red button back into place for future use.

#### S1430CB620

This 1-foot cord is a NEMA 14-30P to NEMA 6-15/20R. The NEMA 14-30P is a 30 Amp, 4-prong dryer male plug. The NEMA 6-15/20R is a 15/20 Amp, T-blade 250 Volt female connector.

#### S1450CB620

This 1-foot cord is a NEMA 14-50P to NEMA 5-15/20R. The NEMA 14-50P is a 50 Amp, 4-Prong RV/Generator/Range male plug. The NEMA 5-15/20R is a 15/20 Amp, T-blade female connector.



## IMPORTANT DATES TO REMEMBER

### MARCH

Daylight Savings March 13

HIMSS March 14-18

St Patrick's Day March 17

### APRIL

April Fool's Day April 1

Good Friday April 15

Easter April 17

Earth Day April 22

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