

How to Find your Power Solution



STEP ONE

Recognize Your Outlet or Power Source

You need to know the outlet and power source you are using. Every connection has a NEMA configuration, a rating, and is the male or female counterpart in a pair.

The term **receptacle** is another word for an **outlet**. The receptacle is found on the power source and is often indicated by the letter **R** in our product names, descriptions, and NEMA configurations.

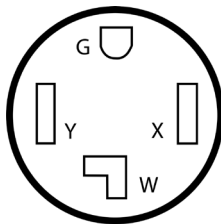
We have simple tips to help you **recognize the outlet**.

1. What is the power source or equipment you are using?
2. What are the NEMA configuration numbers on the outlet?
3. What is the voltage and amperage rating for the outlet or power source?

EXAMPLES

4-PRONG DRYER CONNECTIONS

Outlet Example 14-30R Outlet **NEMA Configuration** NEMA 14-30R



30 Amp - 125/250 Volt - Four Prong

STEP TWO

Recognize the Application You are Powering

"What are you trying to power?" that is the question we need answered. The common term *application* refers to equipment, the device, or plug/inlet side.

Like step one, the application plug has a NEMA configuration. It contains a rating and is the male or female counterpart in a pair.

The term **plug**, is indicated by the letter **P** in our product names, descriptions, and NEMA configurations.

We have simple tips to help you **recognize the plug or inlet**.

1. What is the equipment to power?
2. What are the plug NEMA configuration numbers? *They can be found on the plug, label, or user manual.*
3. What are the voltage and amperage ratings for the equipment?

If the NEMA configuration numbers are not visible on the outlet, you can use our search terms and configuration drawing examples to find the correct products. It is important to use more than just the rating when trying to find the product solution you need. Make sure the voltage, amperage, number of prongs, and equipment type all match.

STEP THREE

Product Search and Determination

Now you know both the male and female sides, making it easier to identify the correct product on our site.

Find the **www.ACWORKS.com** search bar.

Type the NEMA configurations you found for both sides, starting with the outlet.

Most of these search terms will populate available products. If there is no solution using the search terms you identified, one of a few things may have happened.

1. The information identified is incorrect.
2. There is no solution for the scenario you are requesting.
3. There are more search tips on the back of this page.
4. What do you do now? Text us for an easy to find accurate solution if you have trouble finding it on the site.



POWER SOURCE



Household
15 Amp - 125 Volt

Home/Industrial
15 Amp - 250 Volt

Household T-Blade
20 Amp - 125 Volt

T-Blade HVAC
20 Amp - 250 Volt

OUTLET CONFIGURATION

NEMA 5-15R
3-Prong

NEMA 6-15R
3-Prong

NEMA 5-20R
3-Prong

NEMA 6-20R
3-Prong



EQUIPMENT PLUG CONFIGURATION

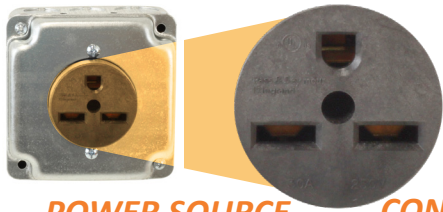
NEMA 5-15P
3-Prong

NEMA 6-15P
3-Prong

NEMA 5-20P
3-Prong

NEMA 6-20P
3-Prong





Some of the Most Common Configurations

POWER SOURCE

OUTLET CONFIGURATION

EQUIPMENT PLUG CONFIGURATION

3-Prong HVAC 30 Amp - 250 Volt	NEMA 6-30R 3-Prong		NEMA 6-30P 3-Prong	
RV/Travel Trailer 30 Amp - 125 Volt	NEMA TT-30R 3-Prong		NEMA TT-30P 3-Prong	
3-Prong Dryer 30 Amp - 125/250 Volt	NEMA 10-30R 3-Prong		NEMA 10-30P 3-Prong	
4-Prong Dryer 30 Amp - 125/250 Volt	NEMA 14-30R 4-Prong		NEMA 14-30P 4-Prong	
3-Prong Welder 50 Amp - 250 Volt	NEMA 6-50R 3-Prong		NEMA 6-50P 3-Prong	
3-Prong Range 50 Amp - 125/250 Volt	NEMA 10-50R 3-Prong		NEMA 10-50P 3-Prong	
4-Prong Range 50 Amp - 125/250 Volt	NEMA 14-50R 4-Prong		NEMA 14-50P 4-Prong	
Home/Industrial 15 Amp - 125 Volt	NEMA L5-15R 3-Prong		NEMA L5-15P 3-Prong	
Home/Generator 20 Amp - 125 Volt	NEMA L5-20R 3-Prong		NEMA L5-20P 3-Prong	
Generator 30 Amp - 125 Volt	NEMA L5-30R 3-Prong		NEMA L5-30P 3-Prong	
Industrial 20 Amp - 250 Volt	NEMA L6-20R 3-Prong		NEMA L6-20P 3-Prong	
Industrial 30 Amp - 250 Volt	NEMA L6-30R 3-Prong		NEMA L6-30P 3-Prong	
Industrial 30 Amp - 277 Volt	NEMA L7-30R 3-Prong		NEMA L7-30P 3-Prong	
Generator 20 Amp - 125/250 Volt	NEMA L14-20R 4-Prong		NEMA L14-20P 4-Prong	
Generator 30 Amp - 125/250 Volt	NEMA L14-30R 4-Prong		NEMA L14-30P 4-Prong	
Industrial 20A - 3-Phase - 250V	NEMA L15-20R 4-Prong		NEMA L15-20P 4-Prong	
Industrial 30A - 3-Phase 250V	NEMA L15-30R 4-Prong		NEMA L15-30P 4-Prong	
Industrial 30A - 3-Phase - 480V	NEMA L16-30R 4-Prong		NEMA L16-30P 4-Prong	
Industrial 20A - 3-Phase - 120/208V	NEMA L21-20R 5-Prong		NEMA L21-20P 5-Prong	

SEARCH TIPS

Now it's time to find the power solution you need. Use the NEMA configurations you found to search for the products you want.

Here is an example:

If you have a NEMA 14-50R range outlet and need to plug a heater with a NEMA 6-30P plug into it, the search term would be **1450630**. This search term will populate any available variation of the product you need.

YOUR SEARCH REVEALED THE FOLLOWING:

1450630

In some cases, there are many variations of the same product. Some have compact adapters, flexible adapters, power distribution, protective power, extension/power cords, and more.

You might want to use the same NEMA 14-50 range outlet to power a welder with a locking NEMA L6-30 plug. In this locking plug example, it is necessary to type the letter "L" in front of the NEMA configuration. The letter "L" is a representation of the locking term. The term used in this case is **1450L630**.

YOUR SEARCH REVEALED THE FOLLOWING:

1450L630

The NEMA 6-30P and NEMA L6-30P are two different configurations that will not work in the same outlet. The "L" is necessary to distinguish the product you need.

Because the search terms used in these two examples are similar, it's important to double check the product search making sure you select the correct product.

This search method is used for any product on our website to find the product you need more efficiently. Here, we limited the number of NEMA configuration examples to the most common. If you have trouble finding the item you need, reach out to our customer service department.

Product Adapter Styles by AC WORKS®

Compact style- Unbreakable.

Flexible style- Reach any angle.

Multi-outlet style- More power for multiple applications (power distribution).

Protective style- Overload protection using circuit breakers.

Extension Cords- Lengthening power.

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