

Generator for Sale: Exploring Power Solutions for Every Need

Generators, also known as genets, are devices that convert mechanical energy into electrical energy. Their primary function is to provide a backup power source in situations where the regular power supply is disrupted. In a world heavily reliant on electronic devices and appliances, generators play a crucial role in maintaining continuity during power outages. From residential homes to industrial facilities, the demand for generators has surged, emphasizing the need for a closer look at what's available in the market.



The increasing frequency of extreme weather events, coupled with the global push towards sustainable energy solutions, has led to a rising demand for generators. As a result, manufacturers are

continually innovating to meet diverse needs, making the generator market more dynamic than ever.

What size generator for a house?

Selecting the right size [generator for sale](#) a house is crucial to ensure it meets the power demands during an outage without being over or underutilized. The appropriate size depends on various factors, and calculating the power requirements is a key step. Here's a guide to help you determine the size of the generator needed for your house:

You can run the most critical household equipment with a generator rated at 5,000 to 7,500 watts. These include things like a refrigerator and freezer and lighting circuits. A generator with around 7500 running watts can run all these appliances at once.

Most modern homes run very energy efficient, but if you want to run AC or hot water heaters it changes things. Give us a call 1300 436 738 and we can discuss your needs ensuring that you can make a truly educated decision with regards to your needs.

For a Caravan or Motor home, a 3000 – 5000-watt generator would be ideal.

Small Portable Genset

The ideal generator size is one that is correctly matched to power all the things you want to run at the same time. If it is too big, not only will it be more expensive to purchase, but it will not necessarily run as efficiently as the correctly matched size. If it is too small, some of your equipment may not give it maximum output, and consequently its lifespan may be reduced.

We recommend using the calculator below to find out your ideal generator size. If you would like further information into how we

calculate the right small 240v generator, please refer to the wattage worksheet below. Please note that the below wattages are simply a guide. For correct wattages, please check the specific power tool or appliance.



Larger Industrial Genset

Selecting a generator in Australia that can handle all your power generation needs is one of the most important aspects of the purchasing decision. Whether you are interested in prime, temporary or standby power, if your new generator can't meet your specific requirements then it simply won't be doing you any good because it can put undue stress on the Generator and even damage some of the equipment connected to it.

Unfortunately, determining exactly what size of generator to purchase is often exceedingly difficult and involves a number of factors and considerations.

Making a choice amongst single phase, three phase, kW, KVA, welder, standby or motor starting generators can be confusing. To prevent such confusion, Powerlite has written this article to help you get a better idea of how the sizing process works and some key things to keep in mind. This is not a substitute for a certified electrician, which we always suggest talking to before Purchasing but it should provide you with enough information to get an understanding of some of the [key factors diesel generator for sale](#) that are involved.

Generator Size Variations



With the latest advancements in the field of power generation, Powerlite supplied and built generators are now available in a wide range of sizes. Powerlite Generators with power supply capacities of 1Kva to 80Kva are readily available for the home use, while Australian industrial generators are anywhere from 50Kva to over 3 Megawatts.

Powerlite can build multi set applications where up to 32 generators can be synchronized to work as 1 (96 Megawatts). Portable Generators are available for homes, caravans and small offices, but larger [businesses](#), data centers, buildings, and mining applications need to use a much larger sized Diesel generator / generators to meet their power requirements.

Generator Sizing

Many people believe smaller generators can be used for standby power because they are not running all the time. This is not only wrong but can be very damaging. Unfortunately, generator under sizing is one of the most common mistakes committed by purchasers.

Not only does it involve the risks of damaging your new generator, but it can also damage other assets connected to it, create hazardous situations, and even limit the overall efficiency of the unit and/or the business relying on it. If nothing else, the key thing to remember here is that more is always better than less.

How to Determine the Right Generator:

While there is no substitute for the [services](#) of a qualified electrician (Powerlite can assist you here) the following information will allow you to make a more qualified decision with a better understanding for choosing the right generator for your application:

Know you're Requirements:

Going to an auction site or a dealer and buying the cheapest or the best (so they say) is not the option.

- Make a list of the items that need to be powered by the generator
 - Make a note of the starting and running Current of the respective items
 - Calculate the total power requirements in Watts or KW
 - Phone or Email Powerlite and one of our technical representatives will be able to assist you.
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How to Find the Starting and Running Current:



Getting the right starting and running current of the device you require to run is very important, these can be found on the manufacturer's plate or in the hand book provided with the item. If these cannot be found call Powerlite and we will be able to assist you.

Power Requirement Charting

It often happens that you lose the owner's manual or for some reason cannot find the [power requirement](#) specification of the tools and/or other electrical devices you're running. See our sample power consumption chart.

FAQs

Q: What is a generator, and how does it work?

A generator is a device that converts mechanical energy into electrical energy. It typically operates on the principle of electromagnetic induction, where a coil of wire is rotated within a magnetic field to generate an electric current.

Q: Why would I need a generator for my home?

Generators are essential for providing backup power during outages. They ensure continuity of electricity, preserving the functionality of essential appliances and maintaining comfort in the home.

Q: What are the different types of generators available for sale?

There are various types of generators, including portable generators for temporary use, standby generators for automatic backup power, and inverter generators known for their clean power output.

Q: How do I determine the right size generator for my house?

The size of the generator depends on your power requirements. Calculate the total wattage of essential appliances, consider starting and running watts, account for surge requirements, and anticipate future expansion. Consulting with a professional is also advisable.

Q: What fuel types are commonly used in generators?

Generators can run on [different fuel types](#), including gasoline, diesel, and propane. The choice of fuel depends on factors such as availability, convenience, and environmental considerations.

Q: Are there eco-friendly generator options available?

Yes, there are eco-friendly options such as solar-powered generators and hybrid models that combine traditional fuels with renewable energy sources. These generators contribute to sustainability and have lower environmental impact.
