

Surge rating for inverters

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Another power outage? In today's world, technology has a solution for everything. Inverter is the solution to the problem of power cuts. The hustle, however, is finding the best inverter for home use.

Buying an inverters without knowing the basics is like shooting in the dark. To help you with this, here is a simplified guide to bringing the right inverter + battery fit, which breathes life into your home appliances.

Inverters are independent electric energy storage systems that supply uninterrupted power during power cuts. These are essential for emergencies like exam preparation, urgent deadlines, and running conventional appliances.

An inverter stores AC as DC in a battery-based system. Since DC cannot run home appliances, it requires a connection with home wiring for convenient use. It can supply power backup to most home appliances if not all of them.

A watt is the standard unit to measure the device's power consumption. Some misused terms are watts per hour and watts per day. It is essential to remember that it is simply the product of voltage and current.

For instance, if a device draws 5 amps at 12 or 1 amp at 60 volts, it consumes only 60 watts. To further simplify this, you can calculate watt-hours based on the number of hours a device runs. If a light uses 100 watts and stays on for 2 hours, it draws 200 watt-hours.

Most commonly, a surge rating is what you must look for and assess the maximum surge it can offer for a given period. A surge rating varies for the inverters and determines their overload handling capacity.

It ranges from 20% to 300%, depending on the type of inverter you choose. Ideally, a 3 to 15-second surge rating helps handle the load of 99% of the home appliances. As surge rating is an essential criterion, the ideal inverter for a home delivers a high surge and hence, supports such appliances easily.

While a household needs only 25% to 50% of the surge rating, a higher surge capacity is useful when you have a heavy-duty submersible well pump, washing machine, mixer grinder or any appliance which has motor or needs surge power to function. With a lower surge rating, you might need to oversize the inverter not to exceed its surge rating.

One size may not fit all homes! Considering this, Livguard has come up with a wide range of inverters for varying needs. Since you have explored the power ratings in inverters, let us look at the different types of inverters Livguard offers.



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Additionally, you can use the power consumption calculator, called the Power Planner, to get an estimate of the load for the inverter. Based on the estimation of the load calculator, it will be easier to narrow down the choices.

If you are planning to explore the Livguard website, you might want to consider understanding the nomenclature. Every product name has its distinct significance. Let us walk you through it with an example:

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