Backup power system 370 kWh

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Generators are an alternative, but the portable ones require manual starting (maybe at night, in the dark) and only provide for short-term minimal critical load backup power. They also need fuel storage and are limited to the amount of fuel you have stored.

Fixed, foundation, or “pad-mounted” generators that are tied into the natural gas utility come with high costs and require city permits due to the noise they create while running.

If you’re going to spend that kind of money, then you should compare it first to a solar energy system with battery backup, which can provide backup energy indefinitely without any need for fuel or fuel storage tanks.

Yes, the good news is there are solar energy storage systems that can provide reliable backup electric power for days, weeks, or as long as you need or want it (depending on its design).

It may come as a surprise to many, but a traditional solar energy system with standard inverters and no battery storage will shut OFF if the electric grid goes down.

A solar power system can continue to operate in the event of a utility power outage only if the system includes energy storage (batteries) and energy control (smart inverter and controller).

The smart inverters and controller monitor where the energy to power your home is coming from (grid, solar panels, or batteries), and when to charge the batteries.

Back up power for critical loads – have electric power ready at all times even if there’s a utility company blackout. You can choose storage systems that power only essential loads to those that provide for full daily loads.

The reality of it comes down to your actual needs, desires, and budget. Due to costs, most battery backup systems are designed to power only essential loads during a power outage. You can, however, power whatever your heart desires if your budget is big enough.

In years past, lead-acid or gel batteries were used to create off-grid or battery backup energy systems. This is the same technology used in your automobile’s battery.

Lead-acid battery backup systems are complicated to install, have short life-spans (10 years or less), require a fair amount of maintenance, require proper ventilation to release the gases they create and are costly to install.

Lithium ion batteries are the same technology used to power your smartphone and electric vehicles. As a result of their popularity, the costs of these batteries have reduced significantly in recent years.

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