



Nairobi solar storage

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We are the premier supplier of solar batteries in Kenya working with solar installers, contractors, and individuals that need solar storage solutions. We are specialists in solar batteries and with our decades of experience in the industry, you can rest assured that we know our trade. As such, we stock quality materials and offer our clients unparalleled advice on solar batteries that they cannot get anywhere else. [Read more](#)

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Kenya's abundant sunshine makes solar power a great option for your home. But what happens when the sun goes down? Solar batteries store excess energy from the day, allowing you to use solar power even at night. In this blog post, we'll explore how the best solar batteries work and key considerations when choosing one. By the end, you'll be ready to pick the best solar battery to suit your needs and budget.

Solar batteries are devices used to store energy generated by solar panels for later use. When solar panels generate electricity from sunlight, the energy is often produced during the day when demand may be low. Solar batteries allow this excess energy to be stored for use during times when the sun is not shining, such as at night or during cloudy days.

Solar batteries play a crucial role in solar energy systems. They store excess electricity generated by solar panels during sunny periods. As sunlight hits the panels, they convert solar energy into direct current (DC) electricity. An inverter then transforms this DC electricity into alternating current (AC) for immediate use and to charge the batteries.

Inside the batteries, a chemical reaction stores the excess electricity as chemical energy. This stored energy can be discharged when needed, such as at night or on cloudy days, providing a consistent power supply. When electricity is required, the stored energy is converted back into AC electricity through the inverter. This ensures compatibility with household appliances and devices. This process helps solar energy systems function effectively by maximizing energy use and providing reliable power even without sunlight.

The battery system's capacity determines how much energy it can store. Assess your energy consumption patterns to select a battery with the right capacity to meet your needs. Ensure it can store enough energy to power your home or business during periods of low sunlight or grid outages.

Lithium-ion solar batteries offer higher energy density than other battery types. This allows them to store more energy per unit of volume or weight. As a result, lithium-ion batteries provide greater storage capacity within the same physical size or weight constraints. This makes them more space-efficient and ideal for installations with limited space, such as rooftop solar systems on residential buildings or portable solar power systems.

The depth of discharge (DoD) indicates the percentage of a battery's capacity that can be used before it needs recharging. Assess your energy usage patterns and choose a battery with an appropriate DoD to maximize both efficiency and longevity.

A top-tier solar battery optimizes discharge capacity, allowing you to use the maximum amount of energy. Lithium-ion batteries can often be discharged up to 90% of their total capacity without damage, enabling you to utilize more stored energy. In contrast, lead-acid batteries, particularly traditional flooded types, perform better and last longer when kept at higher charge levels.

The cycle life of a battery refers to the number of charge-discharge cycles it can handle before its capacity significantly degrades. Choose a battery with a high cycle life to ensure long-term durability and reliability.

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