

Lithium-ion battery technology panama

Solar Market Outlook in PanamaThe National Energy Plan 2015-2020 of Panama has an ambitious target of making 70 percent of the country's energy supply coming from a renewable source within a 35-year period. This plan is part of the country's long-term roadmap towards increasing energy efficiency and reducing carbon emissions through its energy system.

The country has considered its renewable energy capacity and there are plenty of sources available. Therefore, they are not just looking at solar energy sources but others too like wind, geothermal, biomass, and hydropower.

In 2019, Panama has reached 500 MW in solar PV energy. This was a huge leap from the previous year's 176 MW solar capacity. This solar capacity rate is expected to continue growing as more solar projects are granted licenses. One of the largest projects to date is that of a Spanish firm that is looking at investing in a solar farm.

Despite the positive outlook for the Panama solar market, there are undeniable challenges that the government is hoping to address. Among these challenges are the current power-market model (that favors conventional energy sources) and lack of flexibility measures.

There are many global suppliers and distributors of solar power equipment that are serving the Panama market. This is good news as the local solar power investments are still in its infancy stage. Therefore, residential and industrial segments looking to expand its solar installations will have enough options available.

Wholesale Lithium-Ion Battery for PV Systems?Simply put, a lithium-ion battery (commonly referred to as a Li-ion battery or LIB) is a type of rechargeable battery that is commonly used for portable electronics and electric vehicles. The popularity of this kind of battery is also steadily growing for military and aerospace applications.

In a lithium-ion battery, lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge, and back when charging. Additionally, lithium-ion batteries use an intercalated lithium compound as the material at the positive electrode and typically graphite at the negative electrode.

Advantages of a Lithium-Ion Battery?The lithium-ion battery offers so many benefits to a lot of electrical devices and appliances. The following are the most commonly known advantages of a lithium-ion battery:

It has a high energy density, and it has the potential for yet higher capacities. It does not need prolonged priming when new. One regular charge is all that is needed. It has a relatively low self-discharge. In fact, its self-discharge is less than half that of nickel-based batteries. It is a low-maintenance battery. No periodic



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discharge is needed, and there is also no memory. It has specialty cells that can provide a very high current to applications like power tools.

Why Are Lithium-Ion Batteries Better for Solar Products than Lead-Acid Batteries?The lead-acid battery is the oldest rechargeable battery in existence, and it also costs less upfront. However, despite that advantage, lead-acid batteries require regular maintenance and don't last as long. These characteristics are some things that aren't present in lithium-ion batteries.

For one thing, lead-acid batteries can only handle up to 50% depth of discharge. Beyond that point, there is a risk of negatively affecting their lifespan. On the other hand, lithium-ion batteries can handle deep discharges of 80% or more. This essentially means they feature a higher usable capacity.

And in addition to better storage for solar power, higher efficiency also comes with a faster rate of charge for lithium-ion batteries. They can handle a higher amperage from the charger, which means that they can be refilled much faster than lead-acid batteries.

In the simplest terms, manufacturing is the process of producing actual goods or items/products through the use of raw materials, human labour, use of machinery, tools and other processes such as chemical formulation. This process usually starts with product designing and raw material selection, turning them into an actual product output.

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