Sonnen ecolinx 1



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Choose from sonnen's range of battery solutions to meet your unique energy needs. Built from German engineering and American ingenuity, every sonnen product has an industry-leading warranty, high-quality craftsmanship, and the intelligence to maximize your clean energy benefits.

We are over 125,000 members strong and together we are making a difference for individuals, businesses, communities, and the planet by building a clean and affordable energy future for everyone.

In my last column I wrote an overview of the new Control4-certified 1000-square-foot townhouse that cyberManor built to showcase the latest, cutting-edge home automation and energy management solutions. This home features 210 square feet of southeast-facing Suniva solar panels optimized by a TiGo Energy Maximizer management unit. These solar panels charge our sonnen EcoLinx 10 kWh smart battery, which satisfies almost all of the electricity requirements for our townhouse showroom.

A typical summer day's performance is shown in the daily performance graph (figure 1). Our sonnen EcoLinx 10 battery energy management system's backup buffer was set to 10 percent, meaning that 10 percent of the system's capacity, or 1 kWh, is always on reserve in case of a power interruption. At 10 percent buffer the sonnen ecoLinx battery is capable of powering the critical loads we defined in our home; including the networking equipment, garage door, and irrigation systems.

We also programmed the sonnen EcoLinx battery to discharge during peak hours from 12:00 pm to 6:00 pm (when energy rates are high), as well as from 6:00 pm to 6:00 am (which, while technically partial peak and off-peak, allows us to power the showroom with stored energy instead of relying on the grid).

As you can see in figure 1, the battery charges in the morning (beginning at 6:00 am) from a combination of solar energy (shown in yellow) and grid power. Currently, the grid can augment the solar production during these off-peak times at a net rate of about 1 kWh per battery module in our sonnen EcoLinx system (after a DC-to-AC conversion loss of about 250 Wh, we have a total of five 2 kWh battery modules charging at a fixed rate of 250 Wh.)

After reaching the reserve charge of 10 percent, solar and/or grid energy is used to charge the showroom until there is enough excess solar energy to once again charge the sonnen EcoLinx battery using this clean energy.

In addition, in order to reduce summer daily energy consumption, the Control4 system is programmed to create a " summer natural cooling scene" to minimize air conditioner run time. This is accomplished by controlling the following intelligent subsystems to provide convective cooling when the showroom temperature hits 77 degrees:

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For example, based on typical low energy consumption and a predicted, sunny weather forecast, the backup buffer should remain at a low percentage to maximize daily energy cycling of the battery. On the other hand, if it is projected to be a cloudy day, and if there is a normal level of predicted energy consumption, the backup buffer should increase to ensure that the battery is fully charged for use during the following days peak electrical rate hours.

It is a very empowering feeling watching our solar PV/sonnen battery storage system power all the electrical energy needs of our townhouse showroom. To know that all the electronics that we typically install in our client's homes — audio/video, lighting, comfort control, and security — can now be powered all day/evening and during power outages using only clean energy. The EcoLinx battery enables us to promote our total home technology solutions as zero carbon footprint solutions.

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