



CUSTOMER: Ferroamp
END USER: Daniel Jonasson
APPLICATION: Peak Reduction
COUNTRY: Sweden
ABOUT: Ferroamp is a fast-growing cleantech company that offers advanced energy and power optimization solutions for real estate.

ferroamp

Home Box – Meeting the growing demands from the residential market

To meet the needs of the residential market, the Nilar EC Home Box has been integrated into a complete home-ready solution by Ferroamp Elektronik AB. This 5,8 kWh complete system can seamlessly integrate with solar panels. The built-in control algorithms and smart software optimize the energy flow between the solar panels, energy storage unit and power grid. The Home Box provide homeowners with an economic, environmentally-friendly and safer solution for today's energy needs.

Together with Ferroamp, the homeowner Daniel Jonasson was offered a solution that suited his needs of a safe and affordable energy storage system that could reduce the peaks in power he was seeing in his daily activities.



The Challenge

The renewable energy industry is in a time of growth and the market is filled with many companies offering a variety of solutions. This stems from the increasing desire of modern households to become sustainable and self-sufficient. The challenge for any consumer is finding a compatible solution that can fit your needs as a homeowner, including energy capabilities, safety and reliability. This is how the journey started for one Swedish citizen, Daniel Jonasson. He was in search of a system that could reduce the peaks in power he was seeing in his daily activities and was exploring solutions that could work. The timing seemed right to explore the market with the available subsidies.



If you're considering to invest in an energy storage system today, there's nothing to hesitate on.



The Solution

For Daniel Jonasson, there was already familiarity with Ferroamp as a company. In his preliminary product exploration, he identified an All-in-one solution that Ferroamp was providing with the Swedish battery manufacturer Nilar. Daniel felt confident in choosing a product based on Swedish-made batteries. This solution, the Home Box, is a grid connected energy storage system with a capacity of 5,8 kWh. It is equipped with Nilar Hydride[®] batteries and a battery management system that communicates with the Ferroamp EnergyHub via an open communication protocol. The EnergyHub offers energy management for the integrated systems and efficient optimization of the energy flow. Daniel also noted that this system was affordable, especially with the available subsidies in Sweden. He is a strong believer in investing in technology today to push innovation forward for the customers of tomorrow. Therefore, through Ferroamp, Daniel committed to the purchase of the Home Box system.

The perfect battery for homeowners



The Benefits

The Home Box allows Daniel to store excess solar energy and utilize it when needed. Ultimately, he is becoming more energy independent. This is made possible by increasing self-consumption, reducing peaks in power consumption and minimizing grid fee costs. As a safety-conscious consumer, Daniel also appreciates the safety offered by this energy storage solution, as it can be placed safely in his home, like any other home appliance. After two months of operation, Daniel has noted reductions in his peak power, indicating that the system is performing according to his expectations and requirements. For the future, Daniel is looking forward to further innovations that will allow him to use more islanding features. In Daniel's own words, "If you're considering to invest in an energy storage system today, there's nothing to hesitate on."

About Nilar

Nilar produces safe and environmentally-conscious Nilar Hydride[®] batteries for energy storage at commercial properties, private households, industrial plants and for use with the smart grid. With R&D departments in the US and Sweden, and a manufacturing plant in Sweden, Nilar is revolutionizing energy and power supply technology, and is taking automated battery production to the next level. [Read more at: www.nilar.com](http://www.nilar.com)

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