

Sunnytek stand alone house energy system



Solar hot water panels feed storage tank when sunny. No antifreeze liquid needed in our

Solar hot water panels of dry design



Solar PV panels optimised for winter climate and cloudy weather.

1 KW-20 KW

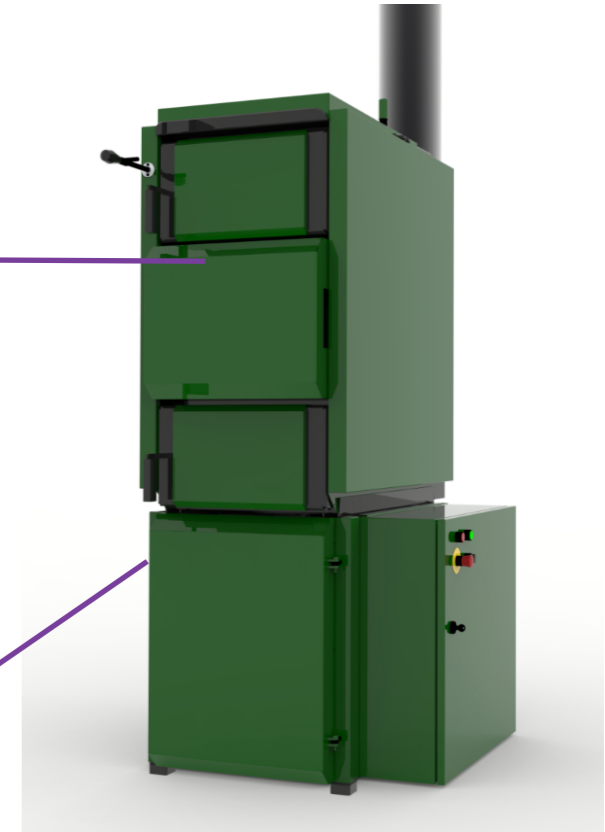


SSO - Solar String Optimizer

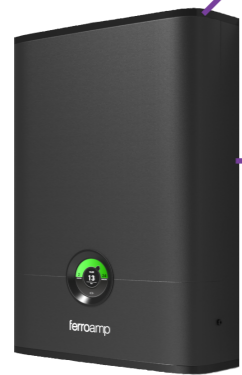
Hub can charge hot water tank if preferred. Or battery if better but also export to grid



Storage tank for water 1000 - 5000 Liter. Can be a converted old and large oil tank. Keep hot water as a storage and hot water battery



Log or pellet burner / boiler with integrated Stirling generator making hot water and electricity out of same unit. Here you use wood and get 20 KW of hot water out of system. At same time you get 1 KW electricity 230 Volt 50 Hz by the integrated Stirling generator. As power is stored in battery this can handle all houses that can live with 24 KWH / day in power. Hot water is enough for winter use in Scandinavia



EnergyHub Wall

Battery charger up to 25 KW



Electrical storage battery by Redox Flow cell 10-50 KWH as needed at site Flow cells can be used for 10-20 years without replacement.



Optional battery is salt water battery with 100% green design. 2 KWH. to 28 KWH size.



220 Volt / 380 Volt 1 or 3 phase for house



Heat pump or air condition can be integrated in systems

Salt water battery is the most modern and green energy storage solution on market and contains no dangerous materials.

All buildings needs an analyse to see how they are used. From this we can balance all components so house can live with no grid over the year even in Nordic climate. Key is winters with very little sun and here the pellet burner and thermo electric system gives what is needed in power. 9 months of year the pellet system is not needed much and solar energy handle almost alla power that is needed. Preferable this set up is combined with Sunnytek new led lamps that consumes almost 50% less power to standard led lamps