

Sion, le 22 novembre 2023

Infra, an energy autarky hub



Infra is a new addition to the studer product range, an innovative concept for a complete energy infrastructure. The infra solar autarky hub secures the energy supply of a building, the integrated next3 rack centralizes the management of all flows including the solar generation, the storage, the grid and the loads.

Studer has combined the power of the next with the rack to create the ultimate dynamic duo. The standard 3-phase 16kW cabinet manufactured in Switzerland is supplied with up to 24 kW of solar and 30kWh of storage and can secure the energy of a small facility with an average yearly 85% autonomy from the grid.

At the heart of the infra concept is the next3 rack, which is the smart distribution hub for energy from the sources to the loads, without any required external meter or accessory. The device topology embraces a full backup capability to run offgrid if required with peak power supplying any type of loads. A double transfer switch is built-in with no requirement of external backup setups. Alternative AC sources as generators are also compatible. The grid connection is therefore optional not mandatory. In case of blackout when grid-tied, and without any additional accessory the system will automatically switch to offgrid mode and continue powering the loads, the users will not even notice.

The hub can be adapted to every project type, integrating rack batteries from 1 to 6 units of 5kWh each and an optional 80A rack bypass for a plug-and-play solution. The infra battery cabinet increase the storage capacity by adding 1 to 10 additional 5kWh battery units. The hub has been designed to meet IP54 protection standards with temperature control. The infra outdoor version has been created with an IP55 for special project requirements for example in hard weather conditions.



Studer manufactures the next3 rack in its factory in Switzerland. The infra cabinet it is also assembled at the factory in Sion. Studer technicians install the next3 rack, batteries and accessories according to the selected items in the infra cabinet and cable all the elements. The full infra cabinet is tested before shipment. Shipping can be organized with the assembled infra hub as plug and play solution or in separate pieces for facilitating transportation and ready to be installed and operated.



**About Studer**

Studer is a manufacturer of high-end power electronics for off-grid, on-grid and hybrid applications. World leader in its domain, Studer has been offering reliable solutions for more than 35 years. The last power conversion equipment manufacturer with 100% of the production chain in Europe.

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