

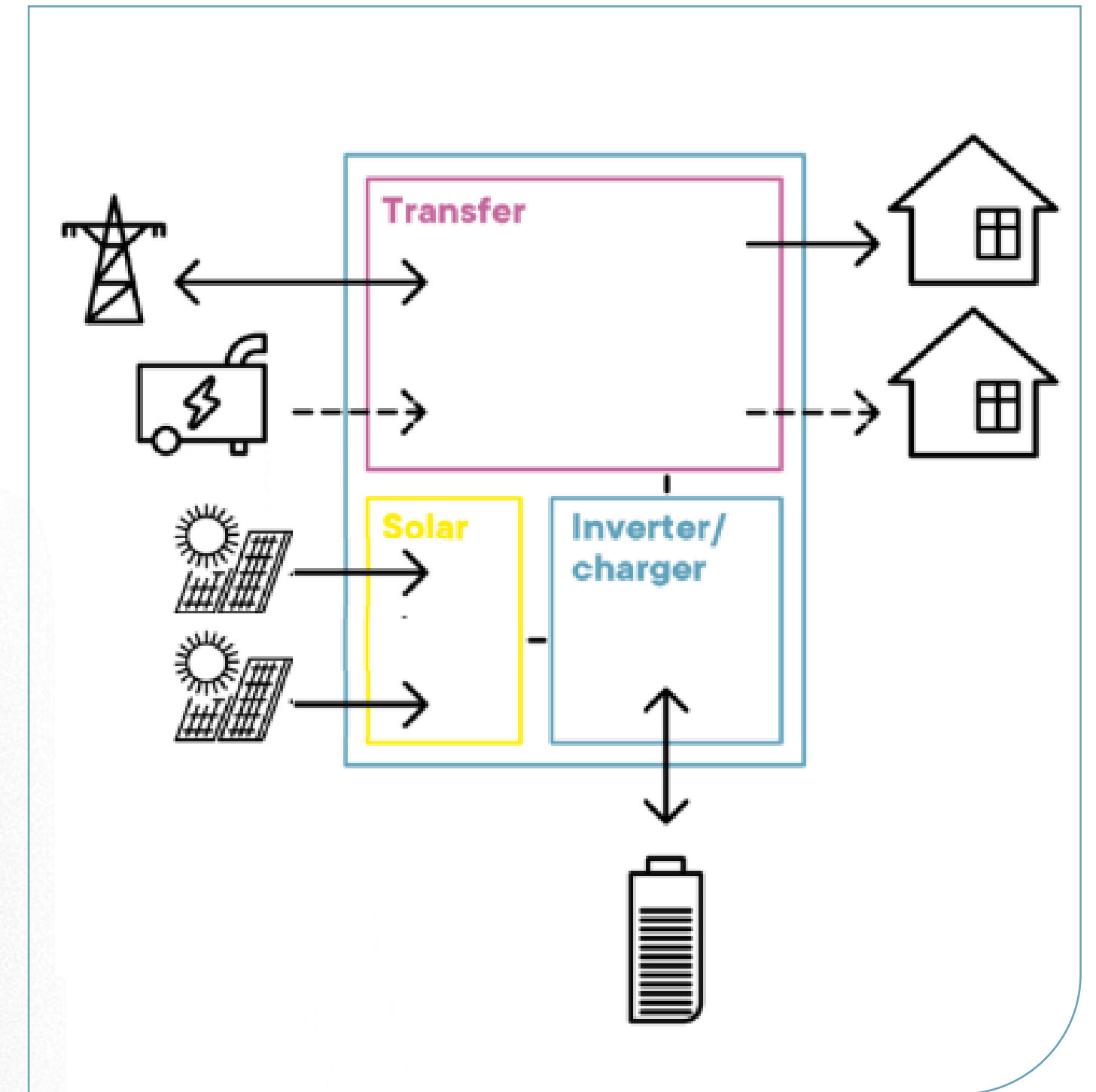
The background of the slide is a photograph of a snow-capped mountain peak, likely the Matterhorn, under a hazy sky. The entire image is overlaid with a semi-transparent orange filter.

Next generation of inverter-charger for offgrid and associated services

Moix Pierre-Olivier, CTO

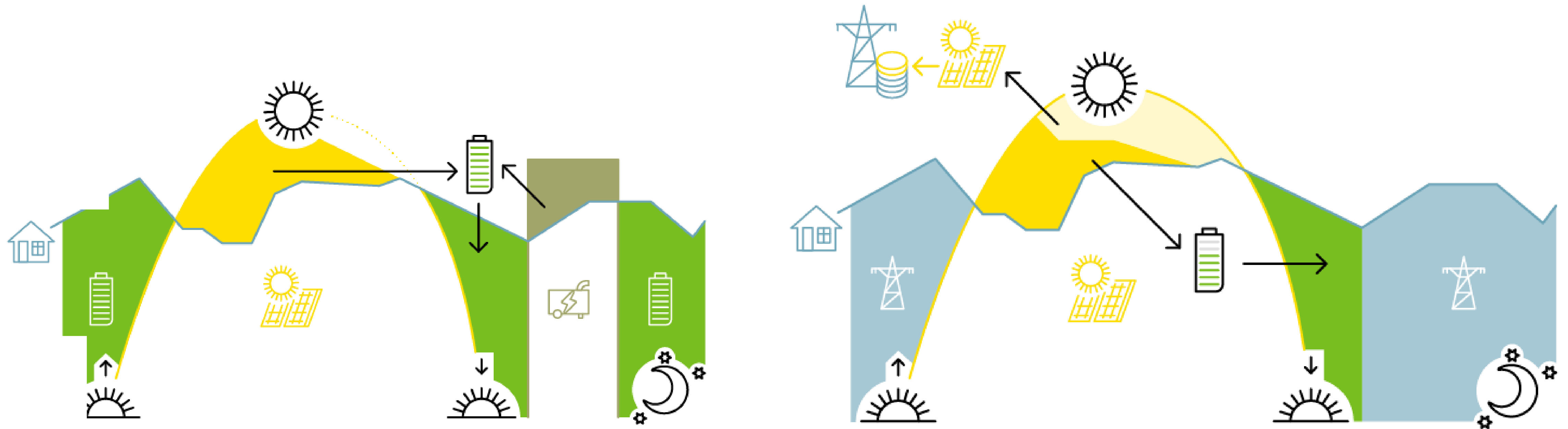
So what's next3?

- A new ground for the future of Studer and its customers
- The first device of a new range
- The technological base for a decade of products development and new applications with renewable energy and storage.



Market applications: energy anywhere with renewables and storage

OFFGRID and ONGRID

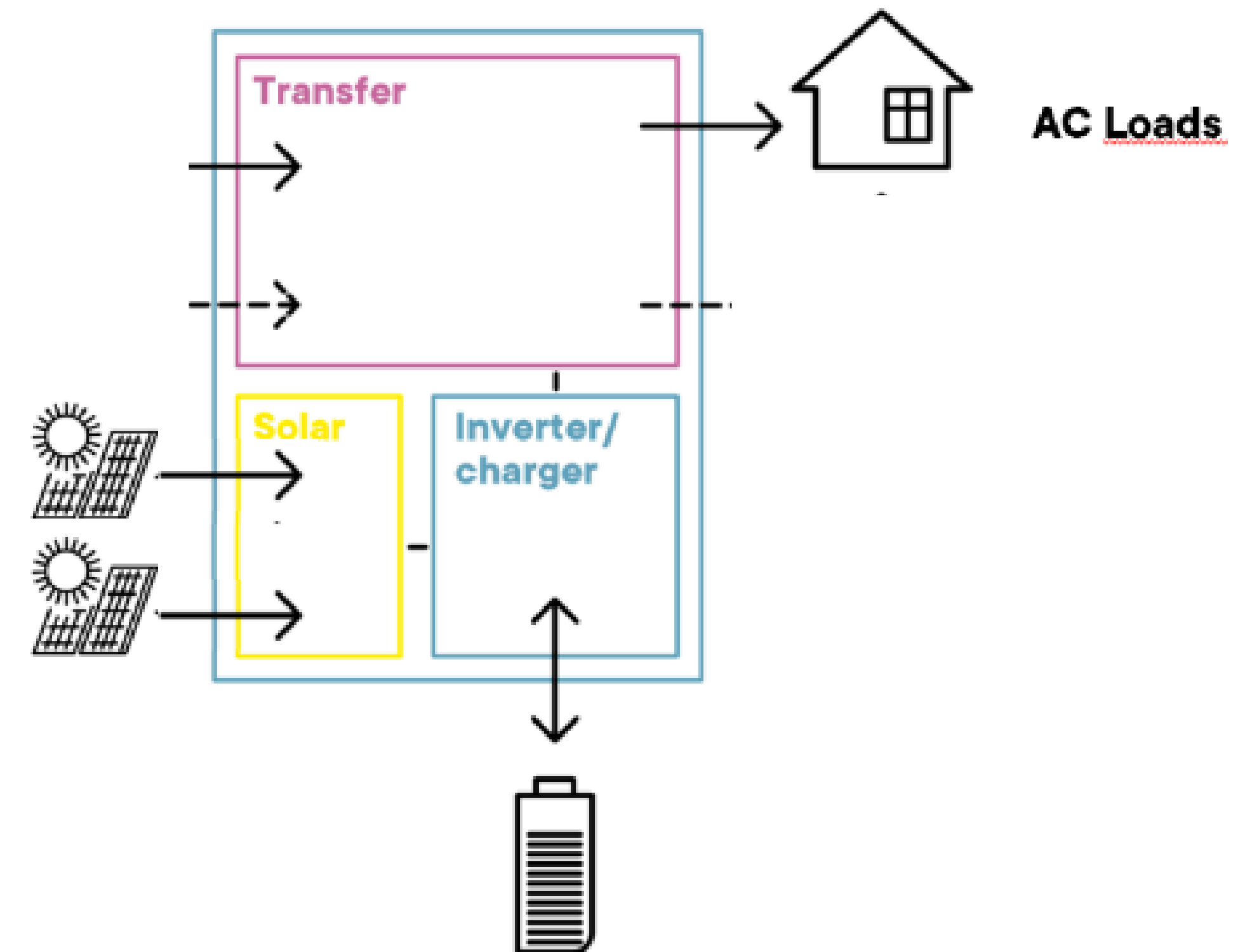


Hybrid / dual inverter



Off-grid operation (grid forming from battery)

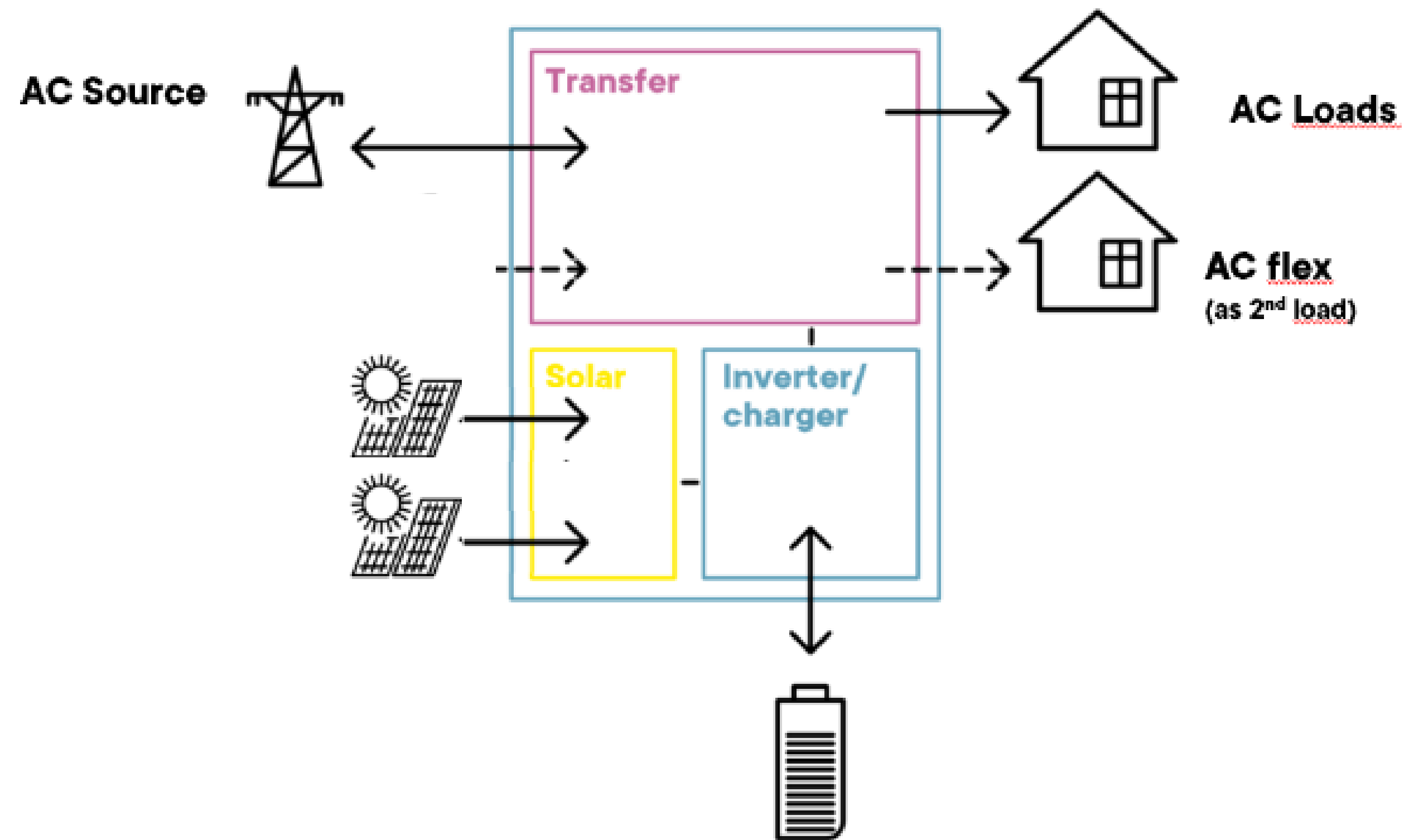
- Threephased
- 16kW power P30
- 30kW peak load of 5 seconds
- Provides users with solar power and recharges the battery
- Galvanic insulation to battery
- Asymmetric loads possible
- AC-FLEX as controllable load or simply for a separate monitoring



Hybrid / dual inverter

Connected to the grid (grid following)

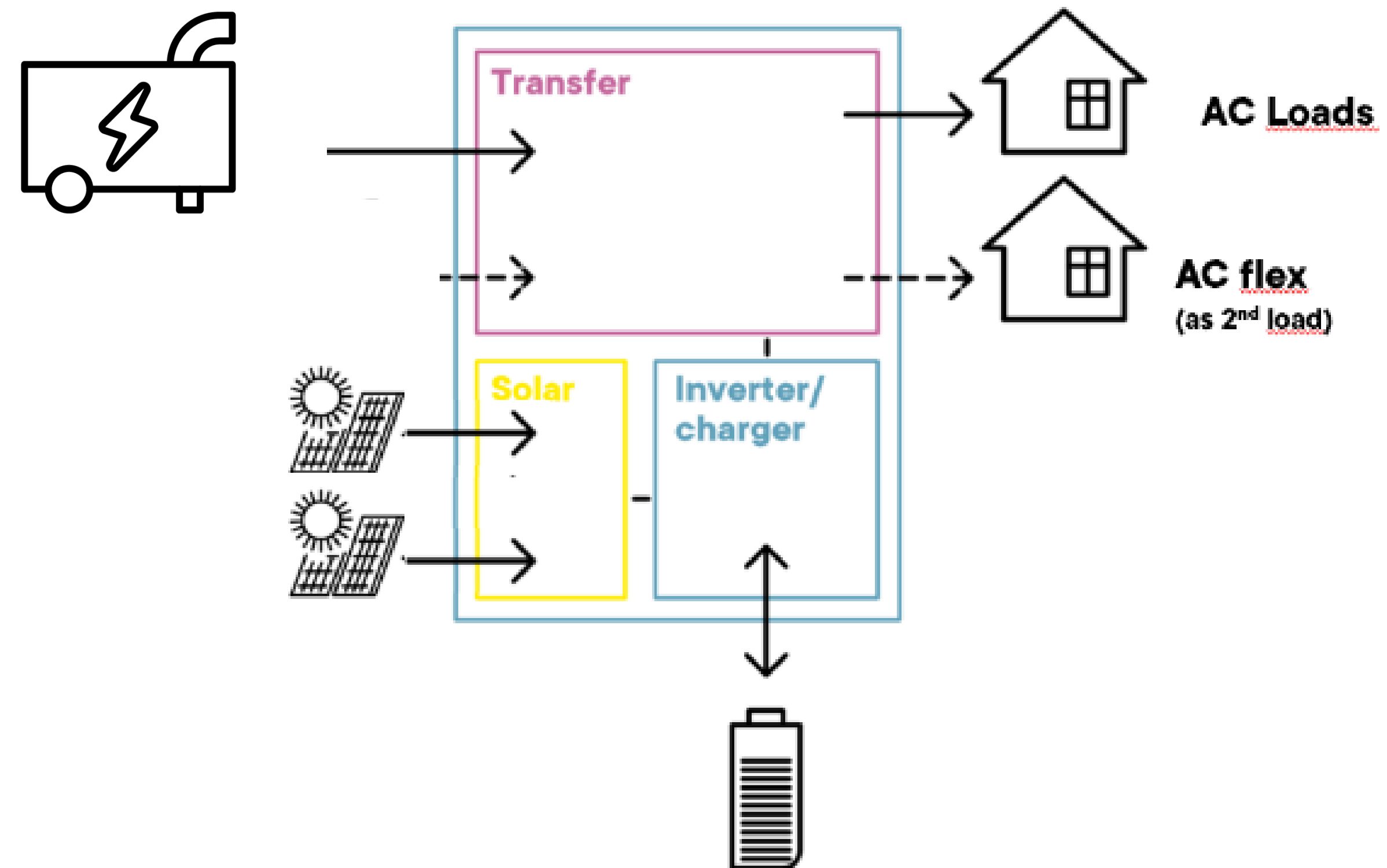
- 80A (55kVA) transfer
- Grid interactive
 - Patented PowerFlowDispatcher solar priority, backup, phasebalancing
- Grid code certified:
 - DE/CH/AT/BE
 - To come: ES/SA/IN



Hybrid / dual inverter

Connected to the grid (grid following)

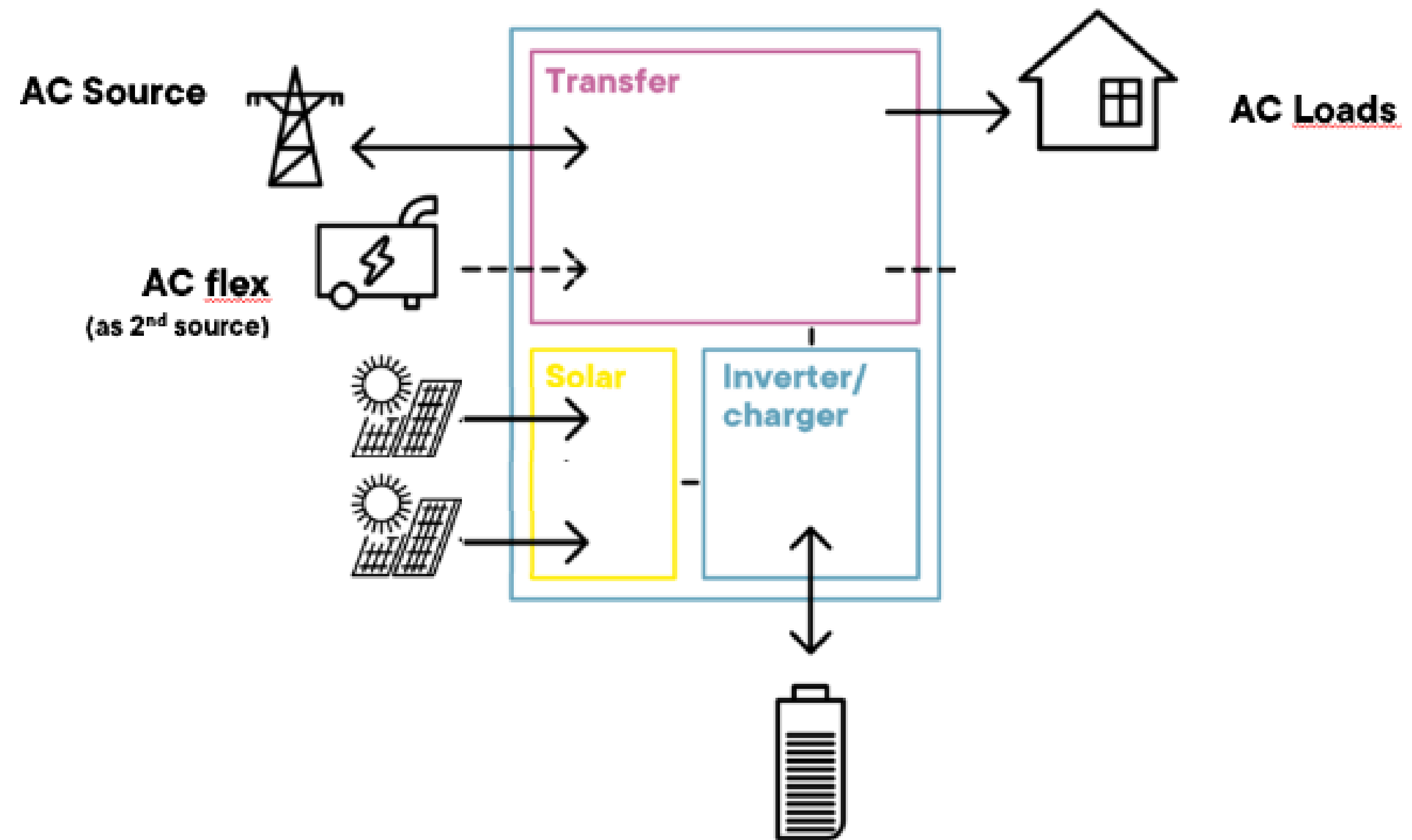
- Management of genset:
 - Power flow dispatcher
 - Active phase balancing
 - Smart-boost 2.0
 - Peak shaving



Hybrid / dual inverter

Connected to the grid (grid following)

- Management of two different sources
- May be two gensets of different sizes

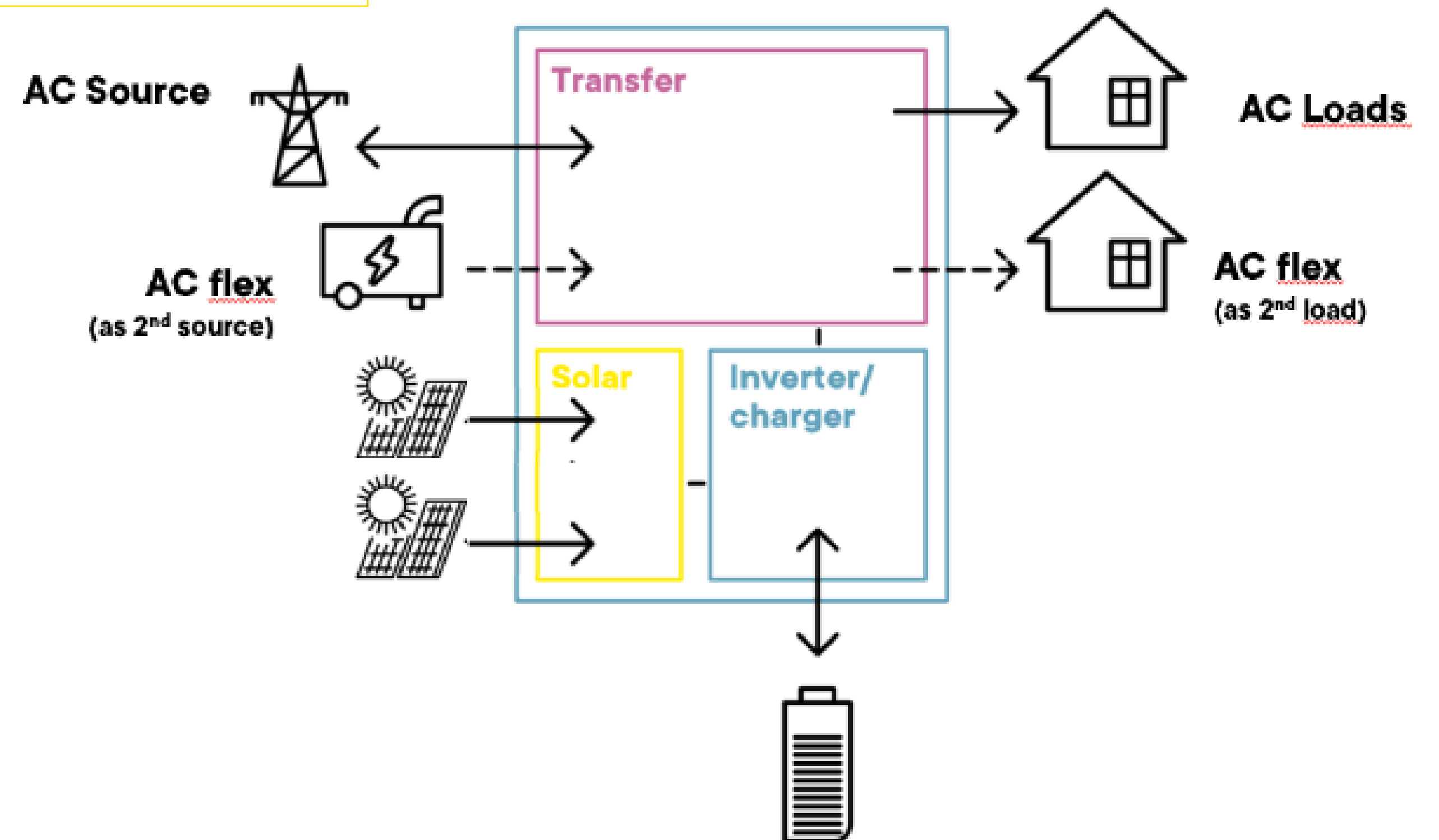
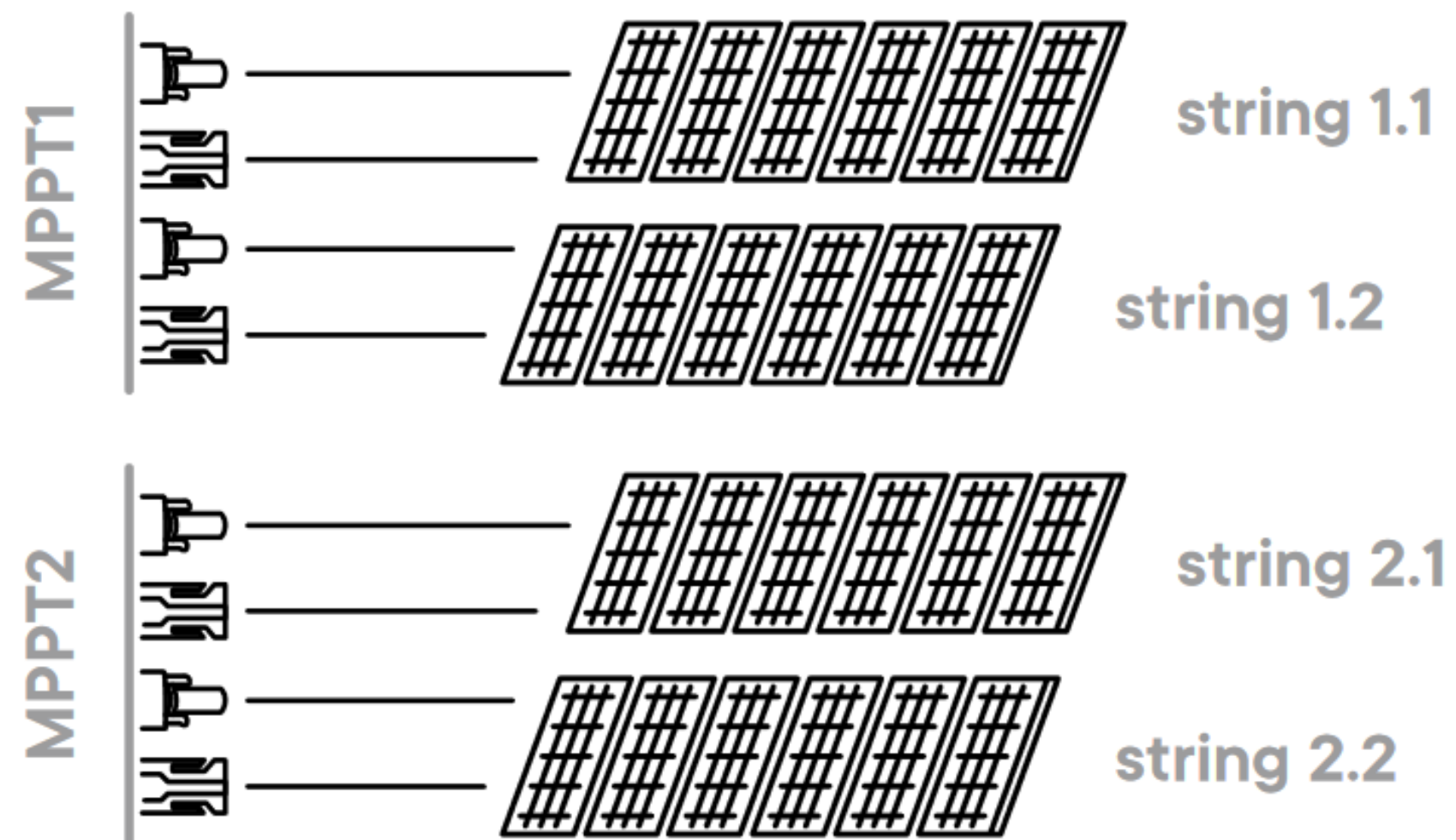


Hybrid / dual inverter



2 Solar inputs

- 2x 8kW
- 350 to 900V



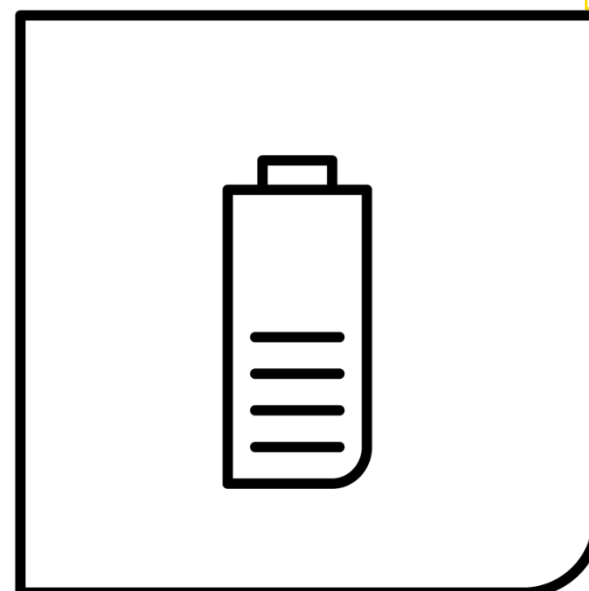
Hybrid / dual inverter



Batteries

- 48V lead acid
- 48V Lithium with CAN communication BMS included

Communication to all batteries with SMA and Studer protocols



Configuration

1 Remote Control

2 Devices

3 General

4 AC

5 Battery

6 Monitoring

7 Summary

Manufacturer name

Search in list ...

AutarcTech

BlueNova

BMZ

✓ BYD

Cegasa

Cosun

Discover

FreedomWon

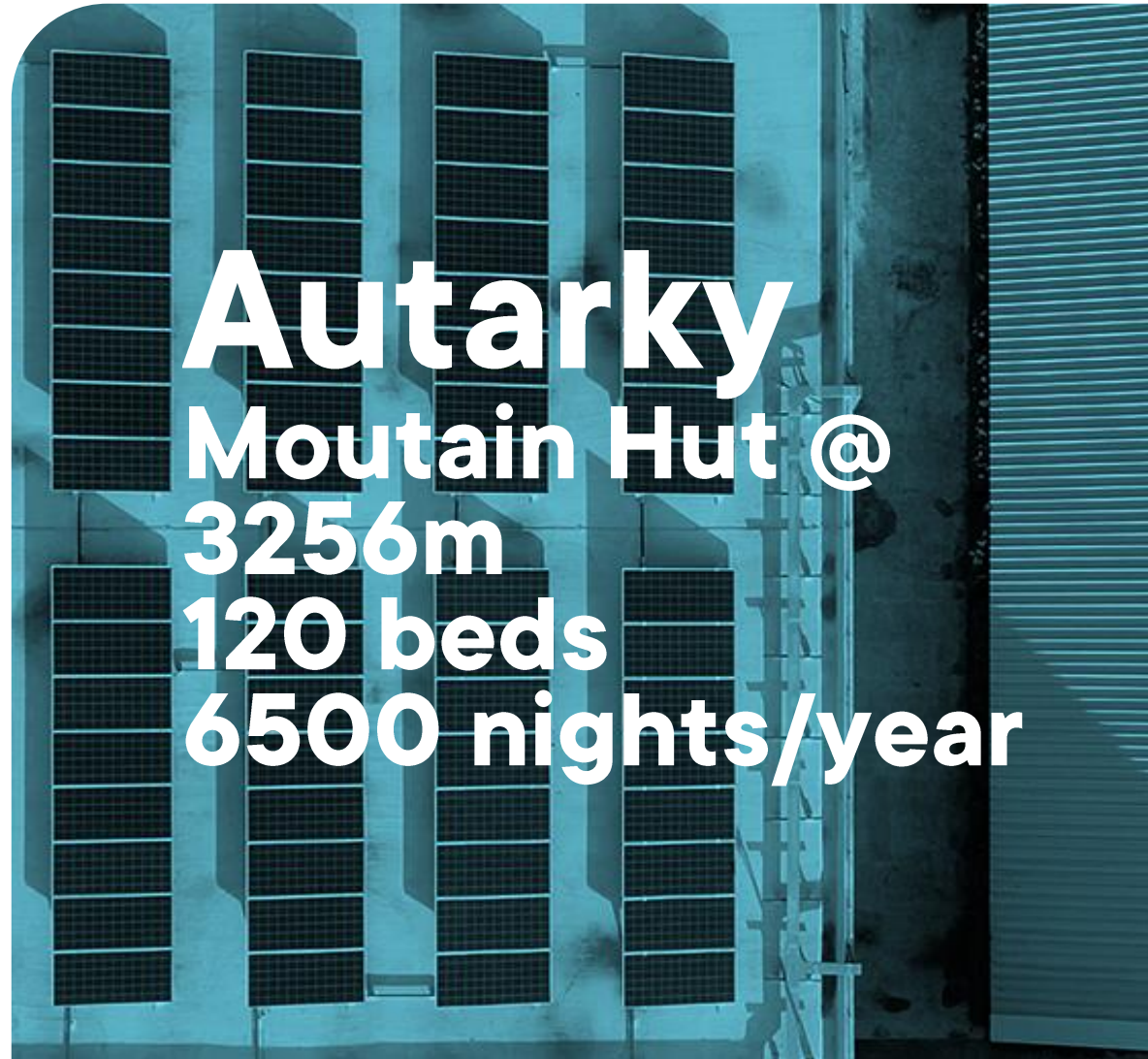
Apply

Battery bank 1 of 1 Specification

Space and cabling savings

- A full wall of devices replaced by one
- And more features

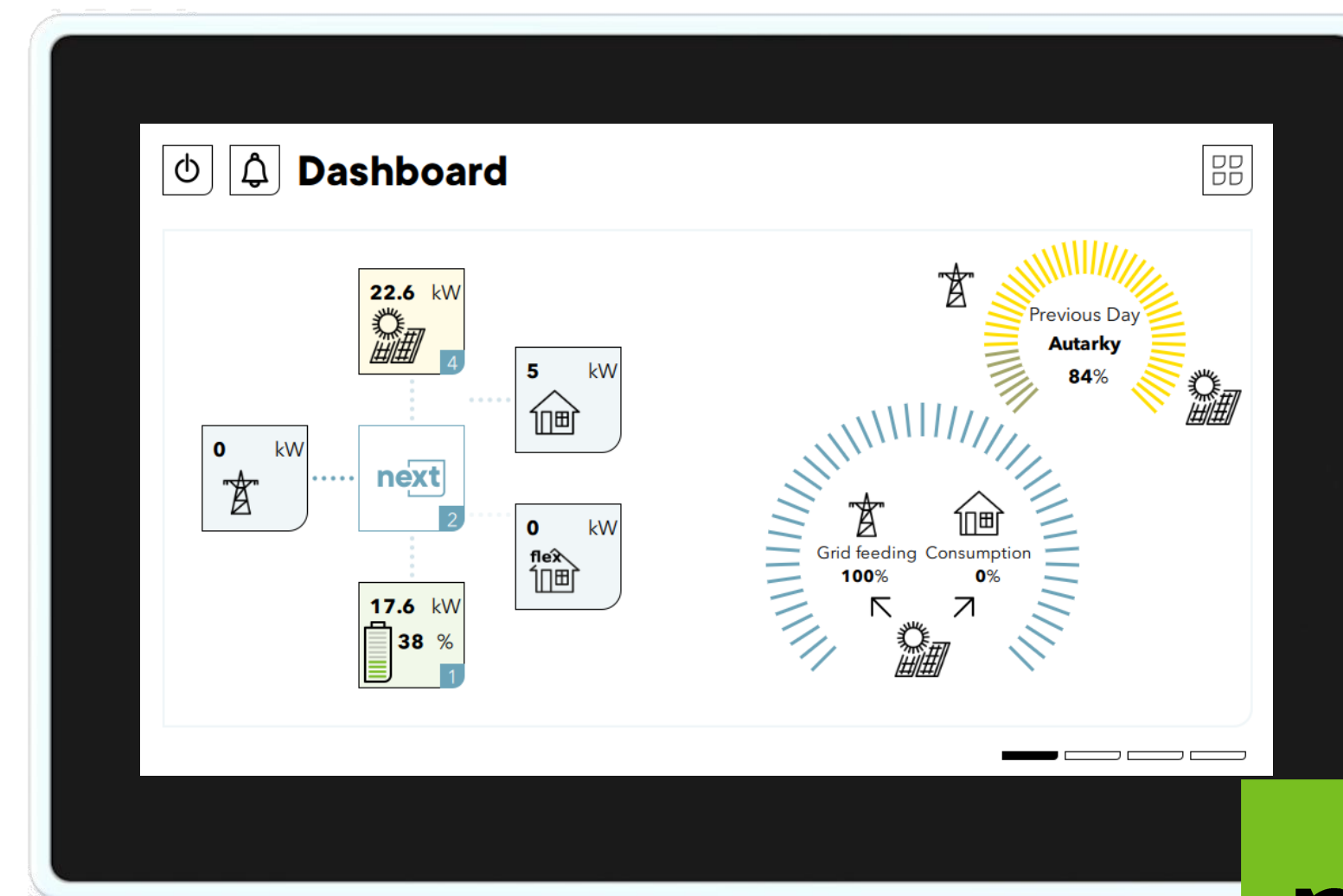




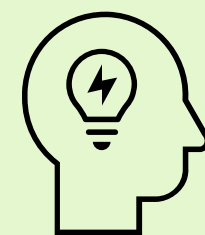
replaced by a single next3



The next level of Interfaces



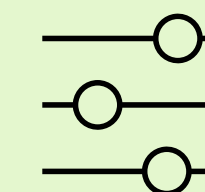
nextOS matterhorn



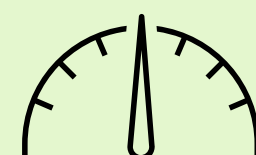
User friendly
Pro + user profiles



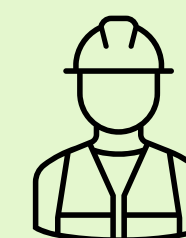
Guided configuration
with built-in explanations and
documentation



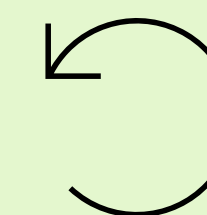
Datalogger Pro
incorporated USB automatic
datalogger



Simplified dashboard
comprehensive control panel



Support
troubleshooting tools on site and
remotely



Easy upgrade
straightforward remote setup and
upgrade

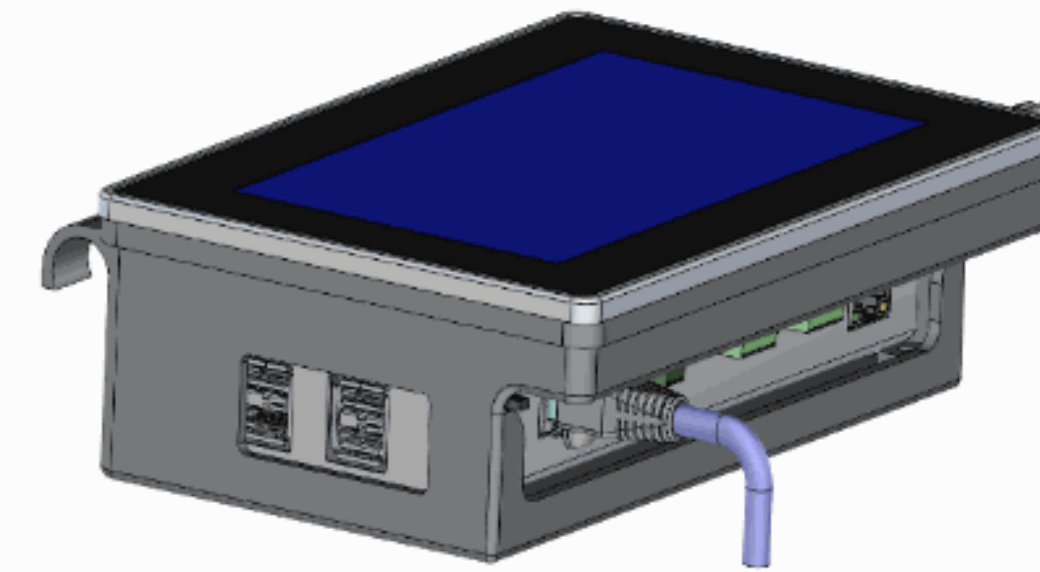
Monitoring

nx-interface

the local and remote monitoring enabler

Highly securized Internet connexion

Offline – USB key

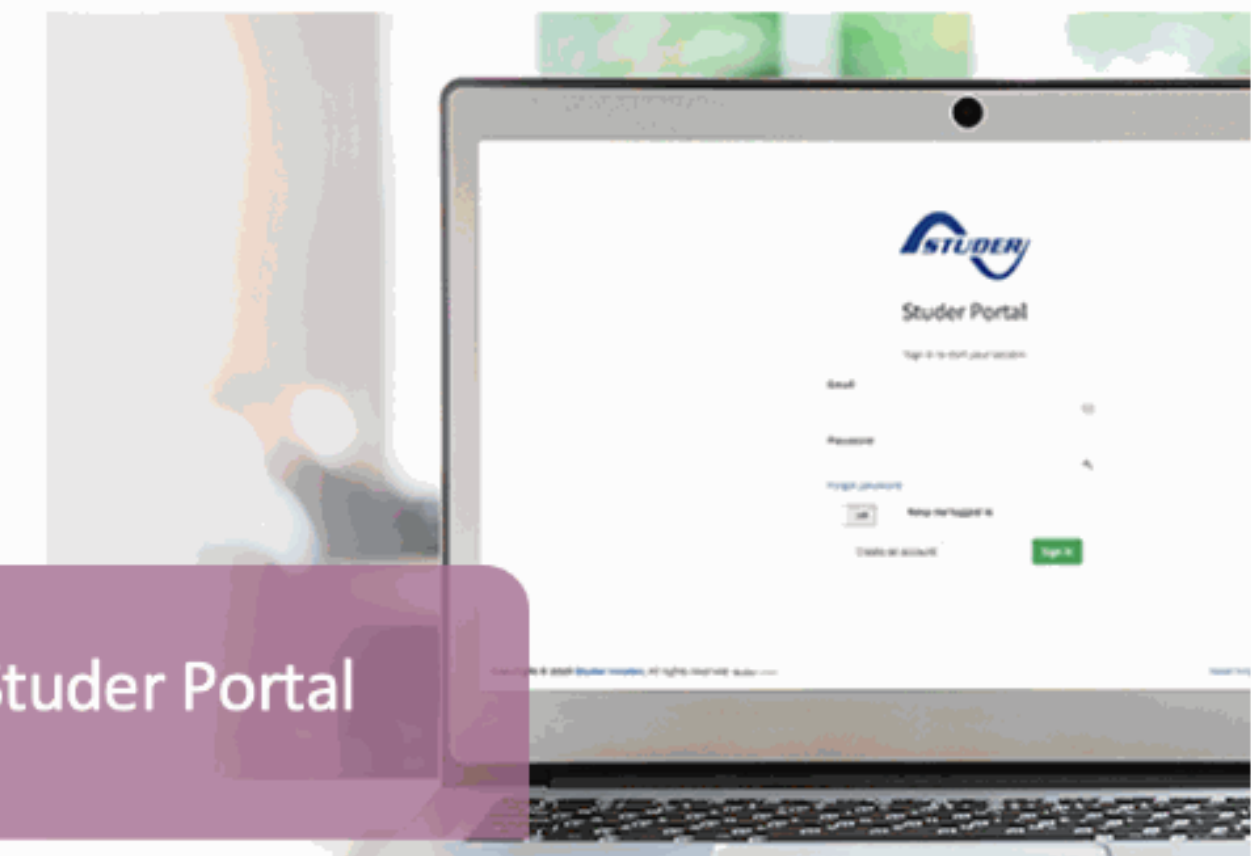


Studer Easy Monitoring App



Online - remote monitoring + control

Studer Portal

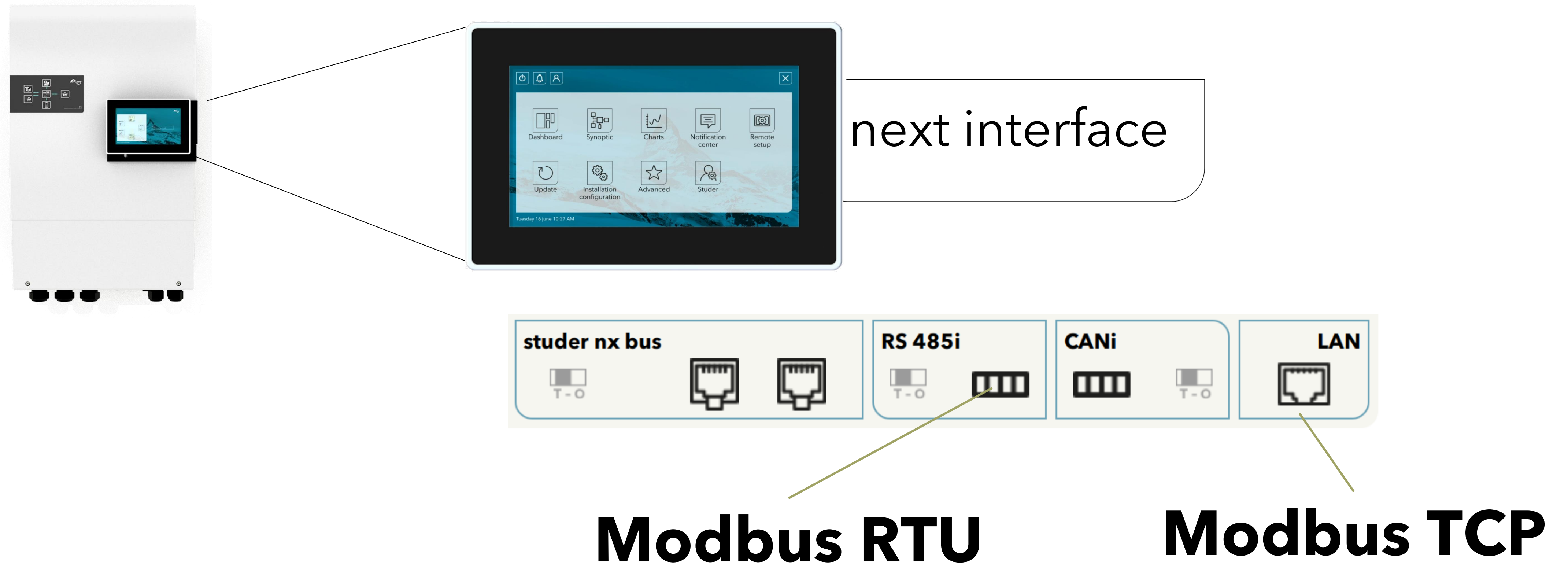


Studer web portal: Data for technician



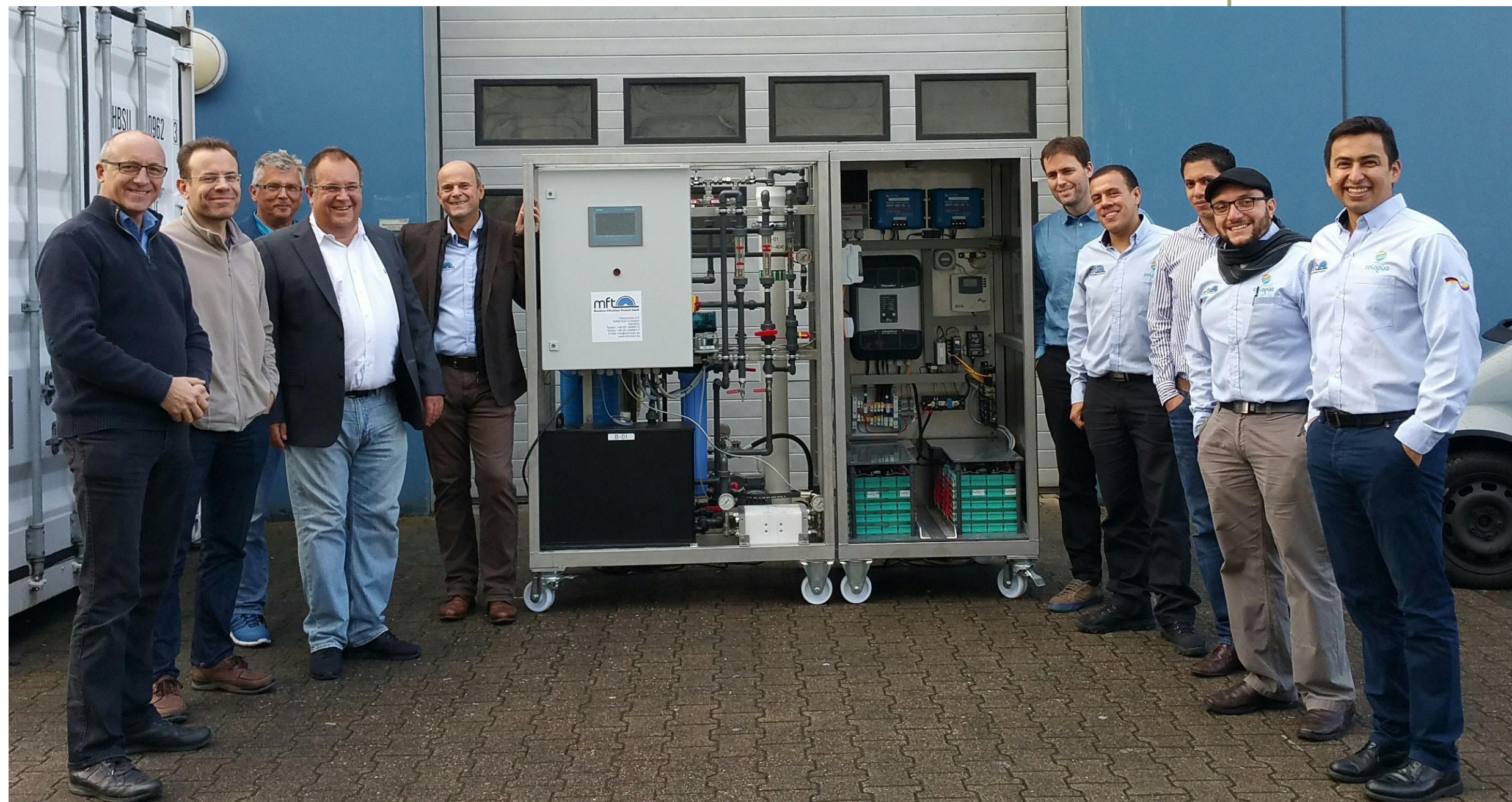
MODBUS COMMUNICATION

The **nx-interface** is the gateway to MODBUS: no additional module next3 inverter can be integrated in third party systems



MODBUS APPLICATIONS

Next3 can be integrated in third party systems:
- Example of ferntech/odyssey



next3 roadmap



Full online
monitoring

3 units in
parallel

AC-coupling

EasyMonitoring
APP V2

next1

TBD

Q2 22

Q3 22

Q4 22

Q4 22

Q1 23

Y23

On the way to the future!

A photograph of a snow-capped mountain peak, likely the Matterhorn, with a steep, rocky slope in the foreground. The entire image is overlaid with a semi-transparent orange filter.

Thank you!
See you on the booth B3.120