



Join the solar autarky

The moment is now

Home sweet home of autarky



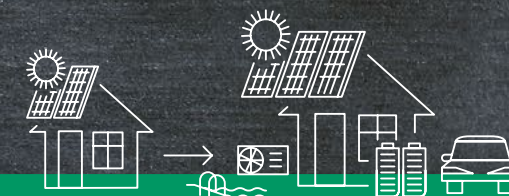
Your renewable energy available day and night, for both city and country life.

The energy transition is here, the energy business model is shifting. The moment has never been more propitious for ecological transition. With our next3 solution we propose our clients to join the solar autarky. The energy independency at home. Our contribution towards decarbonization. The time is now!



Choose autonomy, go 24h solar

With conventional photovoltaic systems, most of the renewable energy is fed back into the electricity grid. Adding battery storage and intelligent energy management allows you to always have your renewable energy available and to choose how to use your self generated energy.



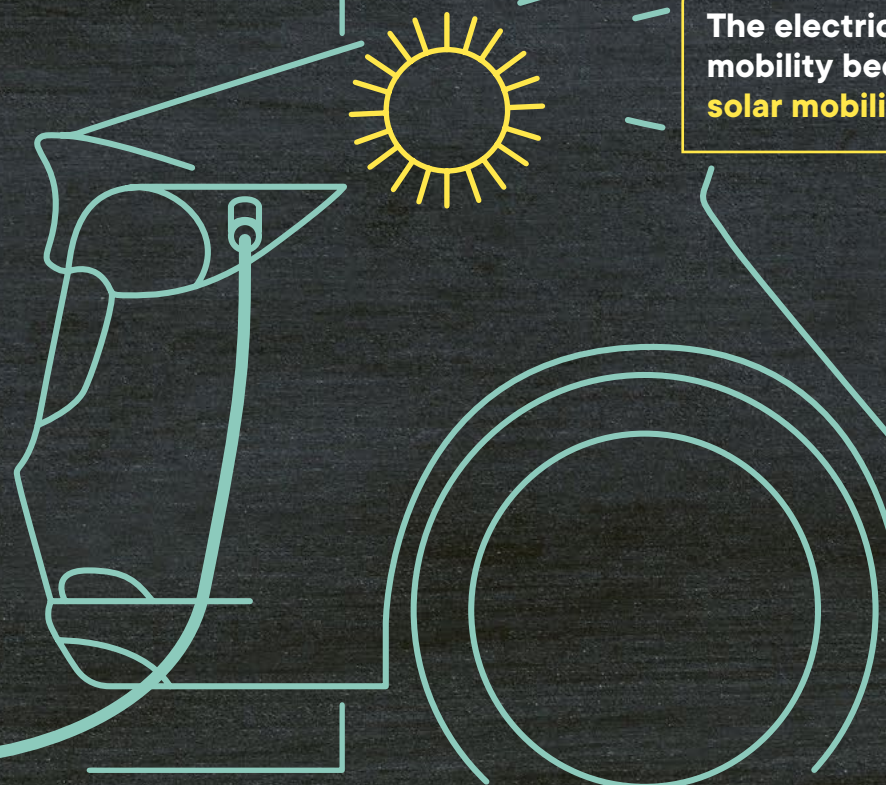
Renovation, electric heating and cooling, smart home automation, ... Electricity is and will always remain the heartbeat of our houses.

Technology is at our hand and we can benefit from it. With a next3 the energy solution is flexible to last for the next decades. Choosing to start with lower solar coverage and to gain autarky as the energy demand evolves is up to you. There is no limitation, the system matches your personal budget.

You decide when to do it, not your system

The electric mobility becomes solar mobility

The forecast of electrical car usage is very promising and will have a great impact in our day to day electric profile. Having the solar pump right at your home or industry is a real benefit. Furthermore, your solar pump being cheaper than any other source of electricity for your electric car is a game changer. With the next3 we propose solar mobility.



Calling all pros, we got news for you

100% off+ongrid

A grid-tied solution, 100% offgrid. Full backup capabilities if required with peak power supplying any type of loads. Transfer switch integrated, no need of external backup setups. Compatible with other AC sources as generators. The grid is optional not mandatory.

Phase balancing



3-phase systems are not simply 3 single phases synchronized with each other. Fixed phase distribution in the source for a complex 3-phase loads installation is the dreamed proposal for your grid operator.

Peak shaving and load shedding



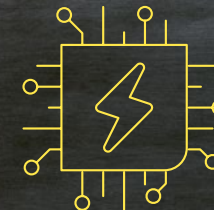
Saving is always good, especially in economic terms. Benefit from tariff negotiation with your power fixed term and in addition contribute to the stability of the infrastructure. A potential future service to the grid?

Our improved iconic smart boost function helps to relieve the grid power by using your solar and battery energy available in priority, opening a wide range of energy strategies at your hand.

Not just another smart function



Power flow dispatcher



Our core management is done by the power flow dispatcher®, a unique and outstanding control algorithm at the power electronic's level for quick reactions and with 1ms synchronization between the units.

Our open philosophy is meant to facilitate full control of the device to take the best out of it. Incorporated bidirectional Modbus communication allows professional integration for the highest added value professional solutions. With **open studer** we provide examples, libraries and we encourage you to go beyond the limits.



**Integration
made easy**

**Advanced
AC sources
and loads
management**



The unique AC flex interface allows to configure a second AC source or a second AC load with a swipe, with an integrated smart energy management simplifying complex installations.



**World-class
communication:
CAN BMS**

With communicating active lithium batteries, the integrated CAN BMS communication is plug&play. Select your battery model and configure your battery strategy quickly and easily.

**To grid or
not to grid**



The next3 is a full grid interactive device following the EU LV directives and the respective country regulations. Select your country and turn your grid connection into a powerful and dynamic asset.

Manage your offgrid energy to the next level

We go straightforward for more than 30 years. The next3 device is conceived to simplify installations keeping the highest reliability.

Our smart inverter-charger comes with a reference voltage of 3x400Vac, includes 2 MPPT inputs with two 900Vdc strings per input. A powerful internal transfer with 80A per phase for backup generators and hybrid architectures. One AC flex interface for advanced automatic management of a second source or a second controlled load. Two additional fully configurable auxiliary contacts and 2 remote entries. Everything in one single device for the full management of a complex offgrid installation.

Is there always room for one more?

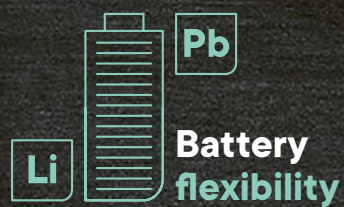
Batteries, solar, 3 phase loads, 3 phase generator. Difficult logistics, challenging space usage, limited time planning.

Our objective is to simplify installations and we put ourselves into the installer shoes. This device replaces up to 6 in a typical solar offgrid 3-phase installation.

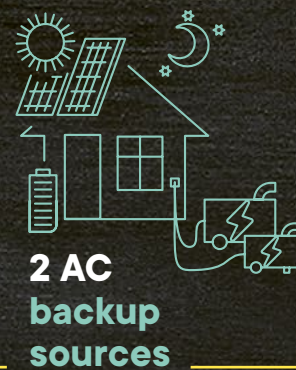
Need more power?

Up to 3 devices can be installed in parallel.

A mountain hut of the Swiss Alpine Club lies at the Tracuit Pass at 3256masl located above Zinal in the canton of Valais. The hut is equipped with Studer devices.



The next3 provides the flexibility to work with different battery technologies.



The demand can vary along the day and night, season periods and other variables. Combining two generators with different setups bring you all the flexibility your usage require.



Transform excess of energy in system assets or secure the supply of the critical loads with your battery backup to cover grid failures.



The next3 compiles a wide range of energy data to build an advanced energy management model. Use our tool for advanced energy management strategies.

Integrated smart advanced energy strategies

next3, the autarky model

AC source

3-phase 3x80 Aac input
Grid ready EU LV

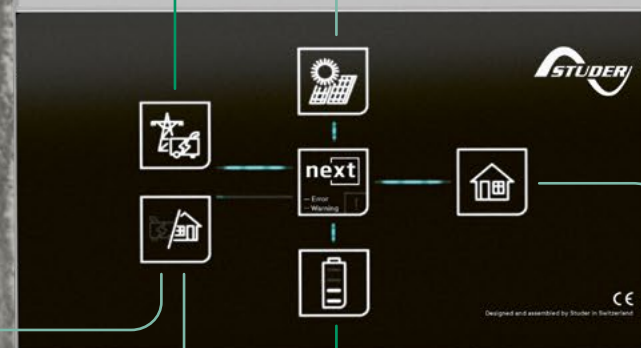
AC flex

2nd source automatic
configuration
3-phase 3x80 Aac input

2nd monitored AC
output automatic
configuration
3-phase 16kVA output

Solar PV

2 independent
900V MPPT inputs
2 x 8kW



AC loads

3-phase 16kVA output
Cont 15kVA, 5 sec
30kVA w/solar, 24 kVA
inv, 10kVA 1-phase

Battery

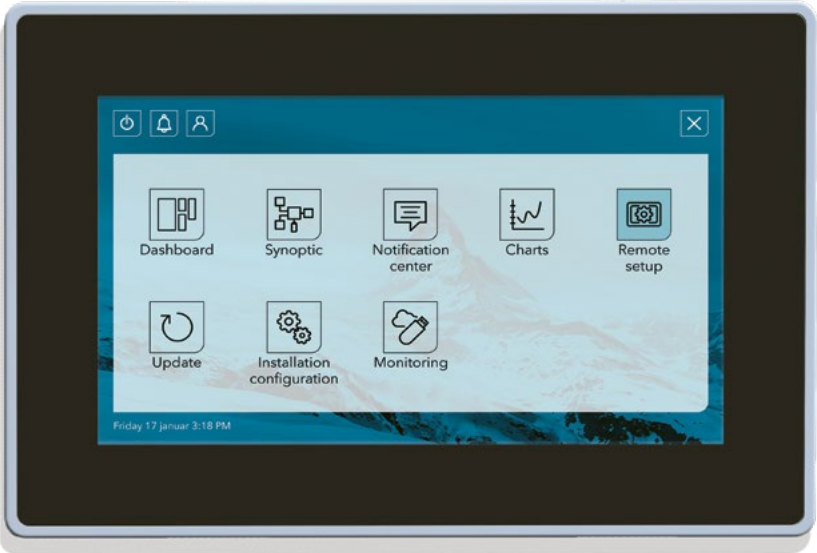
48V Lead-acid or
lithium battery
CAN BMS
and battery
temperature
sensor included

next interface

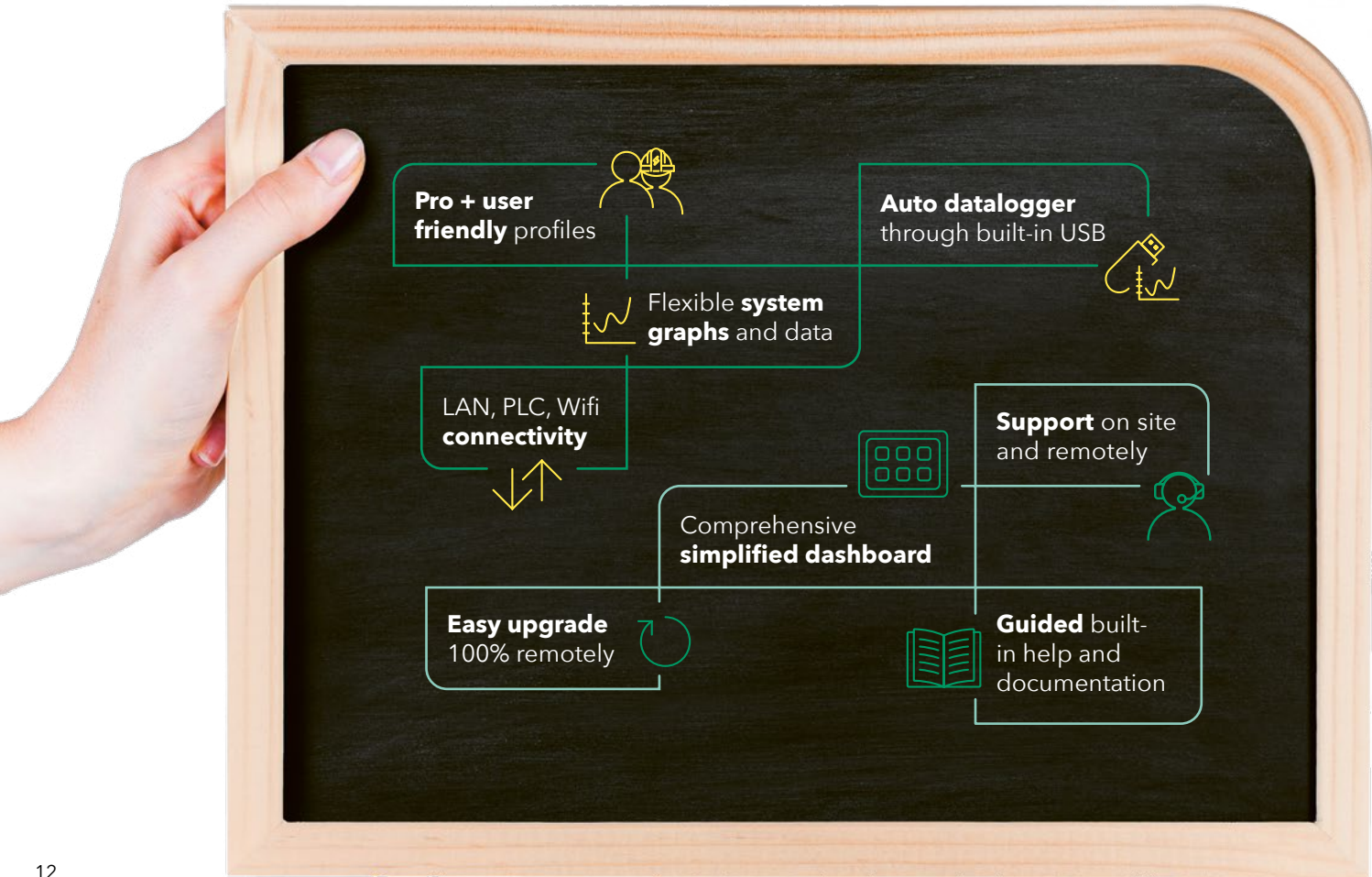
nextOS platform
GUI, datalogger, monitoring

Meet nextOS matterhorn, our latest limitless energy management platform release.

Every next series device is compatible with nextOS. We will be rolling out a series of regular software upgrades including new functionalities and features.



A peak experience at your fingertips



Key takeaways

- Offgrid and ongrid inverter
- Full backup power available in case of grid failure
- DC coupled solar for reliability and high efficiency
- 150% overdimensioning on DC side solar
- 0.1-1 power factor to supply any type of loads
- Low selfconsumption
- Modbus RS485 for professional integration
- Multifunction I/O: 1 auxiliary contacts and 2 remote entries for smart energy management



Hello family

The next3 is the first device of a series that are transforming the energy management model.

And with our 19" rack version, it's a game changer for all professionals.



next3
wall mounted

The new **next3** rack 19"



next1/UL
wall mounted

next1/UL rack 19"

Features coming soon

- AC coupling, your existing solar inverter working smoothly with next3 both ongrid and offgrid. Also with the possibility of the grid parallel configuration with an external meter.
- Multi-unit, multi-battery, bigger power requirements with no power or battery limitations
- Next gen of minigrids, grid-tied residential minigrids with simplified management, district batteries. We are working towards the new electrification generation.
- Smart energy strategies, the accurate energy measurements, powerful algorithms and smart software platforms are the required ingredients, that spiced with Artificial Intelligence and Data Processing, will translate into smart energy strategies models that evolves with the installation.

Get ready for the next big 1

We are currently working on the next1: the single-phase product range. It will come in 19" rack version and the UL @120Vac/60Hz for the North American market. That will complete the next series in the upcoming months.

Autarky experience from our partners

Various of our customers have already noticed a 100% autarky rate thanks to the visualization on the Studer portal available with the next3. This means that 100% of his electrical consumption of the day comes from the sun! Even during a winter day!

Julien Morard, CEO of smartsuna

Smartsuna's next3 residential integration in Switzerland.



Built to last.

All our products are designed and assembled in our factory in Sion in Switzerland. The next3 includes a 15-year warranty (10+5) with studer care+.

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ISO certified factory
9001:2020/14001:2020.

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