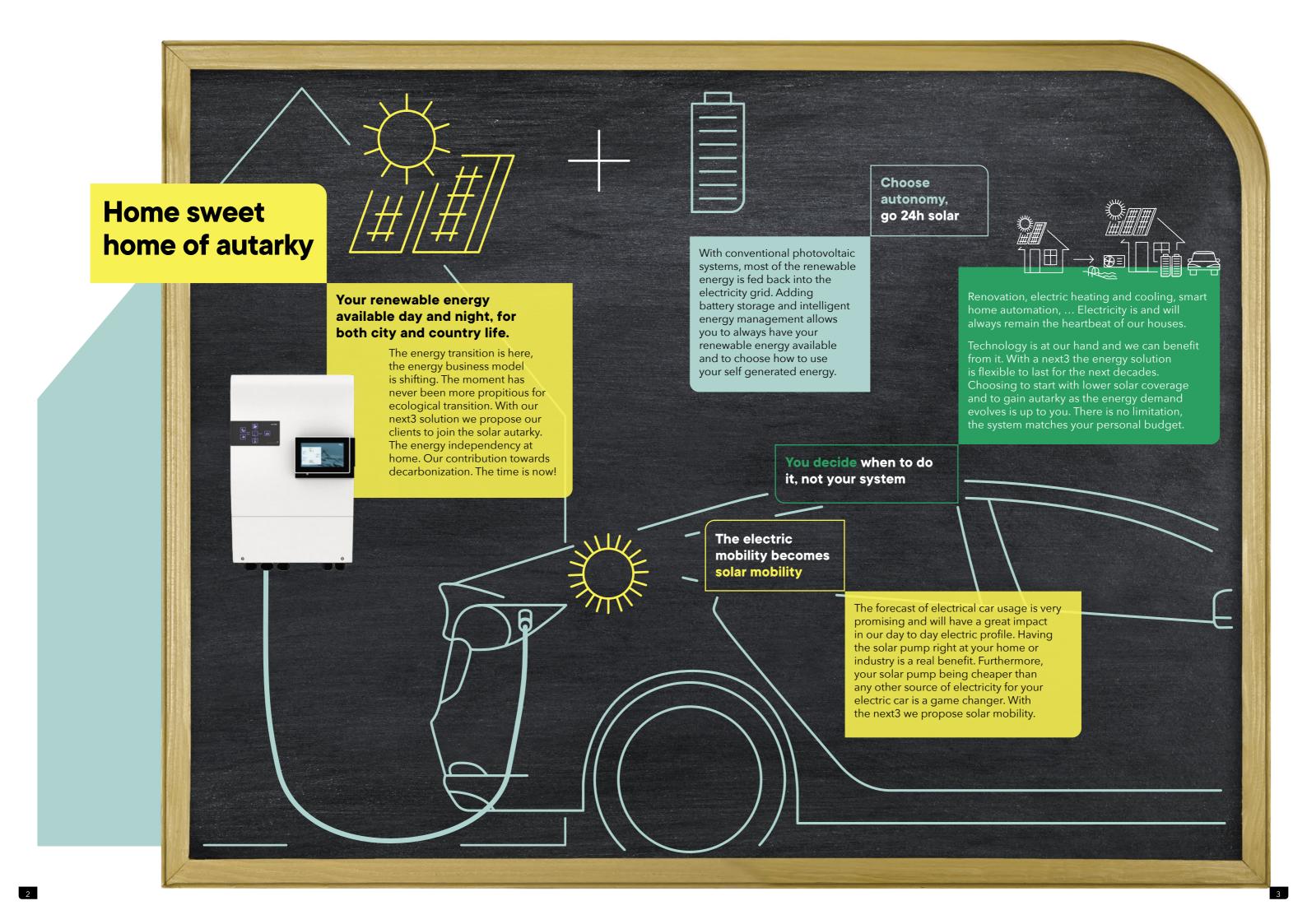


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# Calling all pros, we got news for you

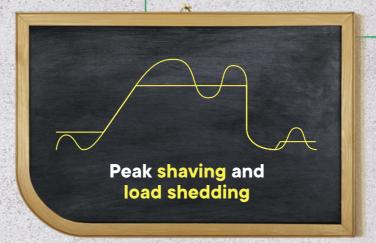
## Flexible solutions that do the job!

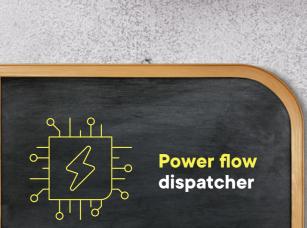
The system should match any client requirements, that's why there is a series of technical features turning the next3 as your best partner for your commercial and industrial applications.



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.

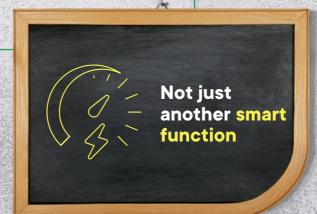
Shaving is always good, especially in economic terms. Benefit from tariff negotiation with your power fixed term and in addition contribute to the stability of the infrastructure. A potential future service to the grid?

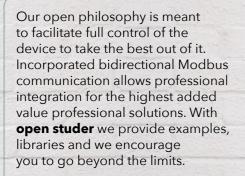




Our core management is done by the power flow dispatcher®, a unique and outstanding control algorithm at the power electronic's level for quick reactions and with 1 ms synchronization between the units.

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.







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.



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.



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.

And all this to be incorporated in a 19" rack version, ready for a complete battery-based solution with all the advantages of the rack versatility.



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# 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.



#### Inverter + battery charger

mileren i barren, emanger		
Continuous power 25°C	15000 VA	
Power 30 min. 25°C	16000 VA	
Power 5 sec. 25°C with solar / inverter / 1-phase	30000 / 24000 / 10000 VA	
Nominal output voltage, line to neutral	pure sine wave 220 / 230 / 240 Vac (±1%)	
Nominal output voltage, line to line	pure sine wave 380 / 400 / 415 Vac (±1%)	
Nominal output frequency	50/60 Hz (±0.02%)	
Nominal battery voltage (Input range)	48 Vdc	
Battery voltage range	38 - 68 Vdc	
Maximum charging current / power	300 Adc / 15000 W	

Cos φ 0.1-1 | Harmonic distortion < 1 % | Charge characteristic 6 steps: bulk, absorption, floating, equalization, reduced floating, periodic absorption | **Temperature compensation** with nx tempsensor (included)

#### Solar PV

Number of MPPT inputs	2	
Max PV short circuit current per PV input	22 Adc	
Maximum PV open voltage (Voc)	900 Vdc	
Start up voltage / Shut off voltage	350 / 100 Vdc	
Maximum solar power produced (electronic limitation)	2 x 8000 W	
Maximum solar power recommended (@STC)	2 x 12000 W	
MPP voltage range recommended	300 - 700 Vdc	

Max. efficiency solar to grid / EU / CEC 97 / 92 / 93% | MPP efficiency static / dynamic > 99 / 99% | Max. efficiency solar to battery 95 %

#### Transfer

AC source (Grid or Genset)	
Maximum rated current	3 x 80 Aac
Operating voltage range, line to neutral	176 - 288 Vac
Nominal voltage, line to neutral / line to line	220, 230, 240 / 380, 400, 415 Vac
Nominal frequency	50 / 60 Hz
Overvoltage category (OVC)	III
<b>Grid code compliance</b> EU Commission Regulation 2016/631 (NC RfG),	EN 50549-1:2019,

AC flex (Controlled 2 <sup>nd</sup> AC load or Genset)		
Maximum rated current	3 x 80 Aac	
Operating voltage range, line to neutral	176 - 288 Vac	
Nominal voltage, line to neutral / line to line	220, 230, 240 /	
Tronina rotage, inte to neutral, inte to inte	380, 400, 415 Vac	
Nominal frequency	50 / 60 Hz	

#### **General data**

Dimensions h / w / I	320 / 450 / 760 mm	
Weight	58 kg	
Self consumption OFF / standby / ON	6 / 7 / 41 W (+5 W with nx interface)	
Multifunction I/O contacts	2 x Input, 2 x Output, rating 16 A each	
Safety conformity (CE marking)	EU Low Voltage Directive (LVD) 2014/35/EU	
EMC conformity (CE marking)	EU Electromagnetic Compliance (EMC) 2014/30/EU	

Ingress protection according to IEC60529 IP30 | Operating ambient temperature range -20 to 55°C | Relative humidity operation range 5 to 95 % (non condensing) | **Mounting location** Indoor, unconditioned

Data may change without any notice. Some features are not available in the gamma version.

#### An all-rounder matching any project requirement

VDE-AR-N 4105:2018, IEC 62116, IEC 61727

- All-in-one compact and versatile solution customized according to project needs
- Outstanding performance and integration of every energy source: solar, grid, generator
- 3-phase input (AC source), 3-phase output (AC loads) and 3-phase AC flex, configurable as a second input or second controlled output
- Smart energy management with AI models
- Smooth operation with all battery technologies. Lithium-ready, integrated CAN communication with lithium batteries BMS
- Unique modular hardware combination with optional solar and transfer modules
- Multiple combination possibilities: parallel operation with one internal transfer, multi-unit and multi-battery system
- Remote monitoring and control with studer professional portal

#### **Options & accesories**



nx3 t



next3 full option (standard)



nx3 sti next3 full option +



temperature sensor

next3 without solar,

without transfer

nx interface

interface

The new intuitive smart platform to configure, control and analyze your system. Making life easier for both professional installers and final users.

### **Hello family**



Next3 series, our versatile and powerful three-phase product range

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

We are currently working on different products that will complete the next series in the upcoming months.



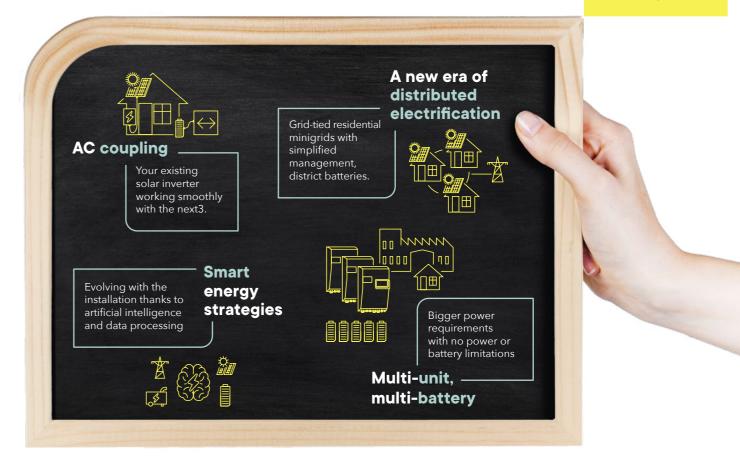
Next1 series, our versatile and powerful single-phase product range

**NextUL** series @120Vac/60Hz for the North American market

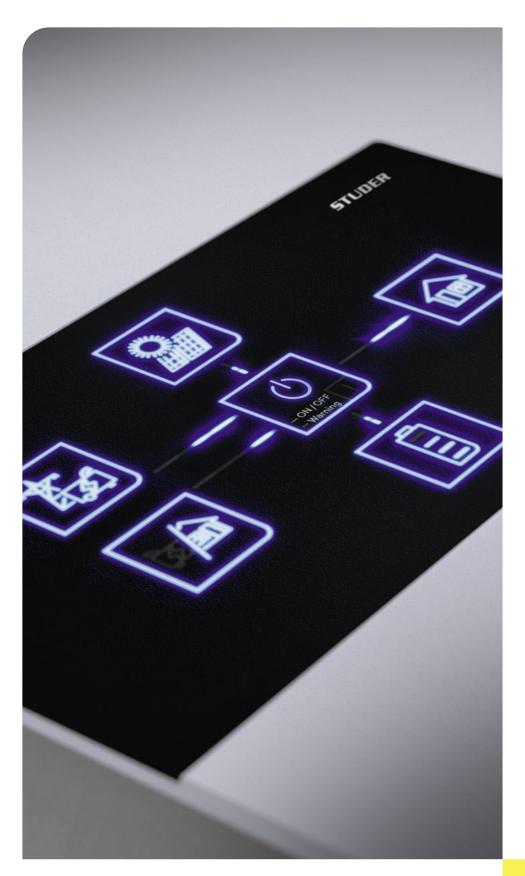


Rack version, the next series in 19" rack version for simple battery-based cabinet solutions

**Features** coming soon



All the devices from the next series will work with nextOS, a limitless energy management platform. New functionalities and features will be published and made available through regular software upgrades.



Call our specialists **+41 27 205 60 80** or visit **studer-innotec.com/next3**.

Studer Innotec SA rue des Casernes 57 1950 Sion, Switzerland All our products include a 12-year warranty (6+6).

ISO certified factory 9001:2020/14001:2020.







