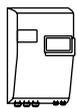


# Technical data



## next3 gamma version

### Inverter/charger

Inverter	
Continuous power @25°C	15 000 VA
Power 30 min. @25°C	16 000 VA
Power 5 sec. @25°C	30 000 VA
* Nominal line to neutral output voltage	Pure sine wave 220/230/240 Vac (±1%)
* Nominal line to line output voltage	Pure sine wave 380/400/415 Vac (±1%)
* Nominal output frequency	50/60 Hz (±0.01%)
Loads cosφ range	0.1 - 1
Harmonic distortion (THD)	< 1%
Battery charger	
Nominal battery voltage	48 Vdc
Battery voltage range	38 - 68 Vdc
* Charge characteristic	6 steps: Bulk, Absorption, Floating, Equalization, reduced floating <sup>2</sup> , periodic absorption <sup>2</sup> Number of steps, thresholds, end current and times completely adjustable
* Maximum charging current/power	300 Adc / 15 000 W
* Temperature compensation	with nx tempensor (included)

### Solar<sup>1</sup>

Solar PV	
Number of MPPT inputs	2
Maximum PV short circuit current per MPPT input	22 Adc
Maximum PV open voltage	900 Vdc
Start up voltage	350 Vdc
Shut off voltage	100 Vdc
Maximum solar power recommended (@STC)	2 x 12 000 W
Maximum solar power produced (electronic limitation)	2 x 8 000 W
MPP voltage range	300 - 700 Vdc

### Transfer<sup>1</sup>

AC source (*Grid or Genset)	
Maximum rated current	3 x 80 Aac
Operating line to neutral voltage range	176 - 288 Vac
* Nominal line to neutral voltage	220 / 230 / 240 Vac
* Nominal line to line voltage	380 / 400 / 415 Vac
* Nominal frequency	50 / 60 Hz
Overvoltage category (OVC)	III
* Grid code compliance <sup>3</sup>	EU Commission Regulation 2016/631 (NC RfG), EN 50549-1:2019, VDE-AR-N 4105:2018, IEC 62116, IEC 61727
AC flex (*Controlled 2 <sup>nd</sup> AC load or Genset)	
Maximum rated current	3 x 80 Aac
Operating line to neutral voltage range	176 - 288 Vac
* Nominal line to neutral voltage	220 / 230 / 240 Vac
* Nominal line to line voltage	380 / 400 / 415 Vac
* Nominal frequency	50 / 60 Hz

General data	
Dimensions h/w/l [mm]	320 / 450 / 760
Weight	58 kg
Ingress Protection according to IEC60529	IP 30, forced ventilation
Multifunction I/O contacts	2x Input and 2x Output, rating 16 A each
Safety conformity (CE marking) <sup>3</sup>	EU Low Voltage Directive (LVD) 2014/35/EU -> EN/IEC 62109-1, 62109-2, 62477-1
EMC conformity (CE marking) <sup>3</sup>	EU ElectroMagnetic Compliance (EMC) 2014/30/EU -> EN/IEC 61000-6-1, 61000-6-2, 61000-6-3, 61000-6-4, 62920, 61000-3-11, 61000-3-12
Environment	
Operating ambient temperature range	-20 to 50°C
Relative humidity range in operation	5 to 95% (Non condensing)
Mounting location	Indoor, unconditioned

## An all-rounder matching any project requirement

- 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<sup>2</sup>
- 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<sup>gamma</sup>
- Multiple combination possibilities: parallel operation with one internal transfer, multi-unit and multi-battery system<sup>gamma</sup>
- Remote monitoring and control with studer professional portal<sup>2</sup>

## Accessories

- nx tempensor (included): battery temperature compensation for lead-acid batteries
- next interface: display, programming and data logging remote control (1 per system)

## Certifications & Warranty

100% manufactured and tested in Switzerland (Europe). ISO certified factory 9001:2020/14001:2020. All our products include a 12-year warranty (6+6).

*Data may change without any notice.*

\* Adjustable values

<sup>1</sup> Optional (not available in the gamma version)

<sup>2</sup> feature under development

<sup>3</sup> product compliant, external certification in progress NYA

<sup>gamma</sup> feature not available in the gamma version