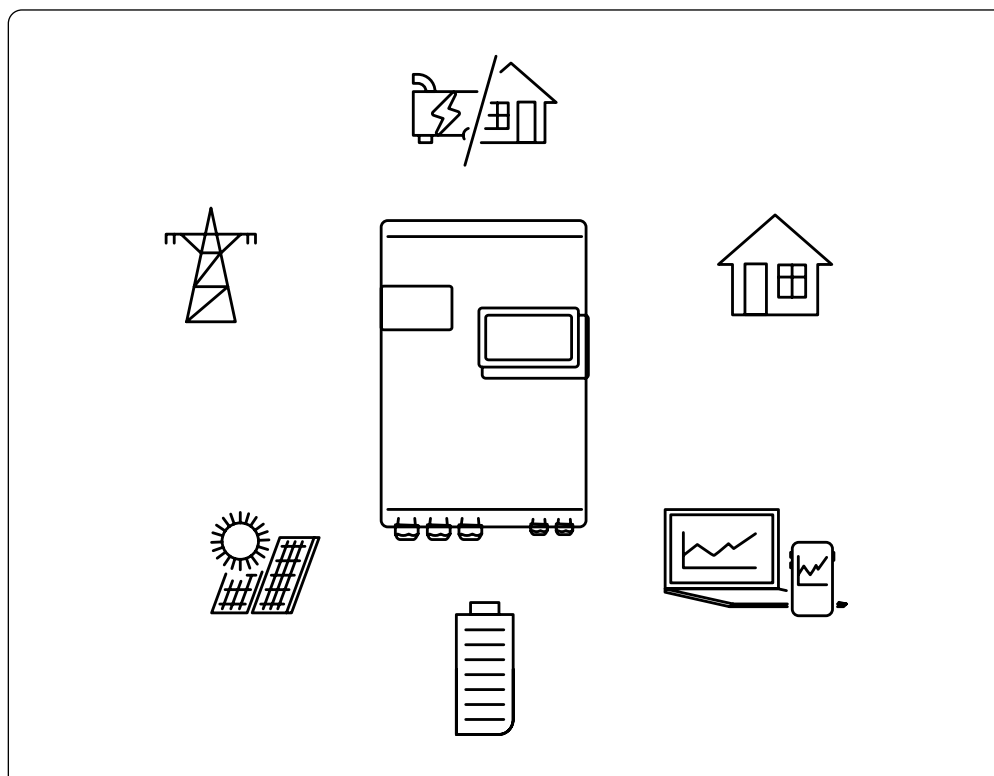


next3

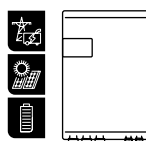
Our versatile 3-phase smart inverter charger with built-in solar MPPT inputs and a wide range of extraordinary features. Ensuring the swiss quality to have outstanding performances for both offgrid and ongrid applications, the next generation brings the battery-based systems to the next level.



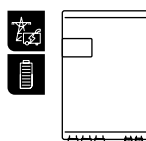
An all-rounder matching any project requirement

- 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 models¹
- Smooth operation with all battery technologies. Lithium-ready, integrated CAN communication with lithium batteries BMS
- Unique modular hardware combination with optional solar and transfer modules²
- Multiple combination possibilities: parallel operation with one internal transfer, multi-unit and multi-battery system²
- Remote monitoring and control with studer professional portal¹

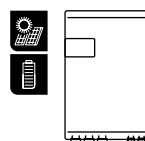
Options & accessories



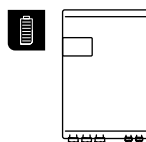
nx3 st
full option (standard)



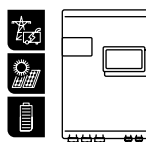
nx3 t
without solar



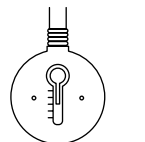
nx3 s
without transfer



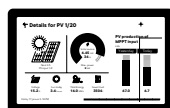
nx3
without solar, without transfer



nx3 sti
full option + interface



nx tempSensor
battery temperature sensor



nx interface
next3 user interface



6 + 6

Certifications & Warranty

All our products include a 12-year warranty (6+6).

ISO certified factory
9001:2020/14001:2020.



Designed and assembled by studer in Switzerland

Inverter + battery charger Onduleur + chargeur de batterie | Weschelrichter + Batterielader | Inversor + Cargador de batería

Continuous power 25°C Puissance continue 25°C Dauerleistung 25°C Potencia continua 25°C	15000 VA
Power 30 min. 25°C Puissance 30 min. 25°C Leistung 30 Min. 25°C Potencia 30 min. 25°C	16000 VA
Power 5 sec. 25°C with solar / inverter / 1-phase Puissance 5 sec. 25°C avec solaire / onduleur / 1-phase Leistung 5 Sek. 25°C mit PV / weschelrichter / 1-Phase Potencia 5 seg. @25°C con solar / inversor / 1 fase	30000 / 24000 / 10000 VA
Nominal output voltage, line to neutral* Tension sortie nominale, phase-neutre Nennausgangsspannung - Phase zum Neutralleiter Tensión nominal de salida, fase-neutro	pure sine wave 220/230/240 Vac (±1%)
Nominal output voltage, line to line* Tension sortie nominale, phase-phase Nennausgangsspannung - Phase zum Phaseleiter Tensión nominal de salida, fase-fase	pure sine wave 380/400/415 Vac (±1%)
Nominal output frequency* Fréquence sortie nominale Nennausgangsfrequenz Frecuencia nominal de salida	50/60 Hz (±0.02%)
Nominal battery voltage (Input range) Tension nominale de la batterie (plage de tension) Nominalspannung der Batterie Tensión nominal de batería	48 Vdc
Battery voltage range Plage de tension batterie Batteriespannungsbereich Rango de tensión de batería	38 - 68 Vdc
Maximum charging current / power* Courant / puissance de charge maximum Maximaler Ladestrom / Leistung Corriente / potencia de carga máxima	300 Adc / 15000 W

Cos φ 0.1-1 | Harmonic distortion < 1 % | Charge characteristic* 6 steps: bulk, absorption, floating, equalization, reduced floating¹, periodic absorption¹ | **Temperature compensation*** with nx tempensor (included)

Cos φ 0.1-1 Distorsion harmonique < 1 % Caractéristique de charge* 6 étapes: bulk, absorption, maintien, egalisation, maintien réduit ¹ , absorption périodique ¹ Compensation de la température* avec nx tempensor (inclus)	Cos φ 0.1-1 Klirfaktor < 1 % Ladecharakteristik* 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung ¹ , periodische Absorption ¹ Temperatur Kompensation* mit nx tempensor (inbegriffen)	Cos φ 0.1-1 Distorsión armónica < 1 % Características de carga* bulk, absorción, flotación, equalización, flotación reducida ¹ , absorción periódica ¹ Compensación por temperatura* con nx tempensor (incluido)
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Solar PV³ Solaire PV³ | Solar PV³ | Solar FV³

Number of MPPT inputs Nombre des entrées MPPT Anzahl der EingängeMPPT Número de entradas MPPT	2
Max PV short circuit current per PV input Courant max de court circuit par entrée PV Max PV-Strom pro PV-Eingang Corriente max de cortocircuito por entrada FV	22 Adc
Maximum PV open voltage (Voc) Tension de circuit ouvert maximum Max Spannung des PV-Generators Tensión máxima de circuito abierto	900 Vdc
Start up voltage / Shut off voltage Tension de démarrage / Tension de coupure Anlaufspannung / Abschaltspannung Tensión de arranque / Tensión de apagado	350 / 100 Vdc
Maximum solar power produced (electronic limitation) Puissance solaire max. produite Max. produzierte PV-Leistung Potencia solar max. producida	2 x 8000 W
Maximum solar power recommended (@STC) Puissance solaire max. recommandée (@STC) Max. Leistung des PV-Generators (@STC) Potencial solar máxima recomendada (@CEM) 2 x 12000 W	
MPP voltage range recommended Plage de tension MPP MPP-Spannungsbereich Rango de tensión MPP	300 - 700 Vdc

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

Rendement de conversion max. solaire au réseau / EU / CEC 97 / 92 / 93% Efficacité MPP statique / dynamique > 99 / 99% Rendement de conversion max. solaire à batterie 95 %	Max. Effizienz von Solar zu Netz / EU / CEC 97 / 92 / 93% MPP-Wirkungsgrad statisch / dynamisch > 99 / 99% Max. Effizienz von Solar zu Batterie 95 %	Rendimiento de conversión max. solar a red / EU / CEC 97 / 92 / 93% Eficiencia MPP estática / dinámica > 99 / 99% Rendimiento de conversión max. solar a batería 95 %
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Transfer³ Transfert³ | Transfer³ | Transferencia³

AC source (grid or genset) Source AC (réseau ou génératrice) AC-Quelle (Netz oder Generator) Entrada AC (red o generador)	
Maximum rated current Courant nominal maximal Maximaler Nennstrom Corriente nominal máxima	3 x 80 Aac
Operating voltage range, line to neutral Plage de tension, phase-neutre Betriebsspannungsbereich, Phase zum Neutralleiter Rango de tensión de funcionamiento, fase-neutro	176 - 288 Vac
Nominal voltage, line to neutral / line to line* Tension nominale, phase-neutre / phase-phase Nennspannung - Phase zum Neutralleiter / Phase zum Phaseleiter Tensión nominal, fase-neutro / fase-fase	220 - 230 - 240 / 380 - 400 - 415 Vac
Nominal frequency* Fréquence nominale Nennfrequenz Frecuencia nominal	50 / 60 Hz
Overvoltage category (OVC) Catégorie de surtension Überspannungskategorie Categoría de sobretensión	III
Grid code compliance* Catégorie de surtension Überspannungskategorie Categoría de sobretensión	EU Commission Regulation 2016/631 (NC RfG), EN 50549-1:2019, VDE-AR-N 4105:2018, IEC 62116, IEC 61727 ⁴

AC flex (2nd source or load) AC flex (2^{ème} entrée ou sortie) | AC flex (2. steueubare AC-eingang oder ausgang) | AC flex (2^{da} entrada o salida)

Maximum rated current Courant nominal maximal Maximaler Nennstrom Corriente nominal máxima	3 x 80 Aac
Operating voltage range, line to neutral Plage de tension, phase-neutre Betriebsspannungsbereich, Phase zum Neutralleiter Rango de tensión de funcionamiento, fase-neutro	176 - 288 Vac
Nominal voltage, line to neutral / line to line* Tension nominale, phase-neutre / phase-phase Nennspannung - Phase zum Neutralleiter / Phase zum Phaseleiter Tensión nominal, fase-neutro / fase-fase	220 - 230 - 240 / 380 - 400 - 415 Vac
Nominal frequency* Fréquence nominale Nennfrequenz Frecuencia nominal	50 / 60 Hz

AC loads Sortie AC | AC-Ausgang | Salida AC

Maximum output current Courant maximal sortie Maximaler Ausgangstrom Corriente máxima de salida	3 x 102 Aac
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General data Donées générales | Allgemeine Daten | Datos generales

Dimensions h/w/l Dimension h/L Abmessungen H/B/L Dimensiones A/a/l	320 / 450 / 760 mm
Weight Poids Gewicht Peso	58 kg
Selfconsumption OFF / Standby / ON Autoconsommation OFF / Standby / ON Eigenverbrauch OFF / Standby / ON autoconsumo OFF / Standby / ON	6 / 7 / 41 W (+5 W with nx interface)
Multifunction I/O contacts Contacts multifonctions I/O Multi-funktionskontakte I/O Contactos multifuncionales I/O	2 x Input, 2 x Output, rating 16 A each
Safety conformity (CE marking) Conformité sécurité (CE) Sicherheitskonformität (CE) Conformidad seguridad (CE)	EU Low Voltage Directive (LVD) 2014/35/EU ⁴
EMC conformity (CE marking) Conformité CEM (CE) Elektromagnetische Konformität (CE) Conformidad CEM (CE)	EU Electromagnetic Compliance (EMC) 2014/30/EU ⁴

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		
Indice de protection selon IEC60529 IP30 Plage de température de travail -20 to 55°C Humidité relative de fonctionnement 5 - 95 % (sans condensation) Emplacement de montage intérieur, non conditionné	Schutzart nach IEC60529 IP30 Betriebstemperatur -20 to 55°C Relative Luftfeuchtigkeit bei Betrieb 5 - 95 % (nicht Kondensierend) Montageort Indoor, unconditioniert	Índice de protección según IEC60529 IP30 Rango de temperatura de trabajo -20 to 55°C Humedad relativa de funcionamiento 5 - 95 % (sin condensación) Lugar de montaje interior, sin acondicionar