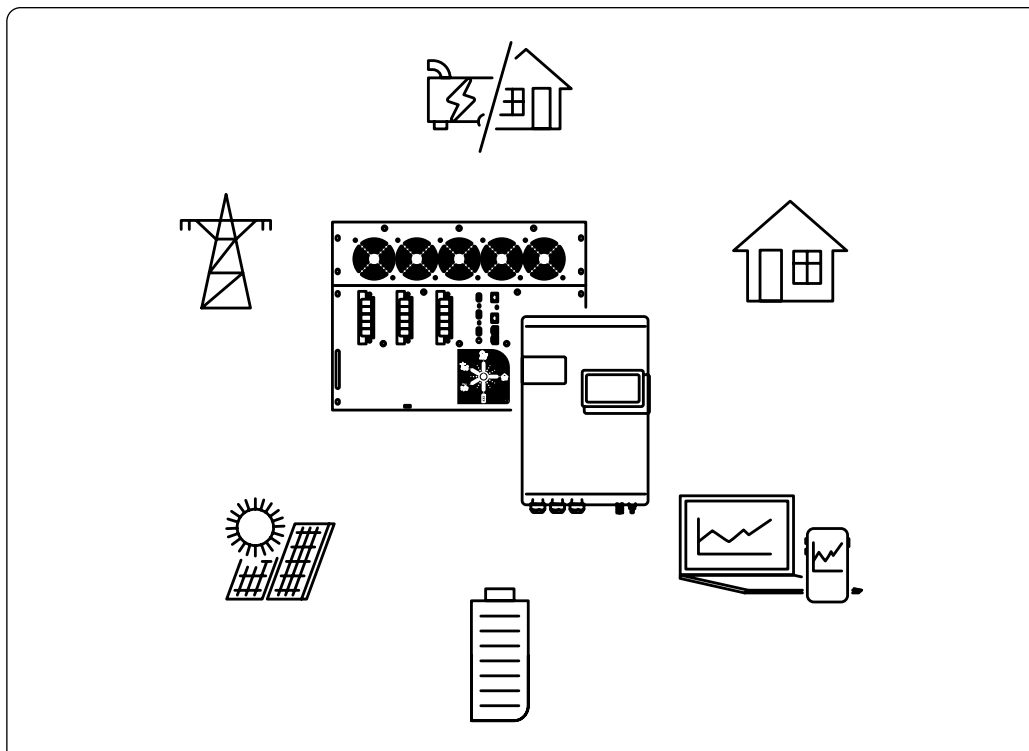


next3

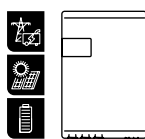
Our versatile 3-phase smart inverter charger with built-in solar MPPT inputs and a wide range of extraordinary features. Ensuring the swiss quality to have outstanding performances for both offgrid and ongrid applications, the next generation brings the battery-based systems to the next level.



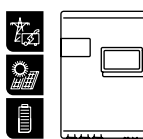
An all-rounder matching any project requirement

- A grid-tied solution, 100% offgrid. Full backup capabilities with peak power supplying any type of loads.
- 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
- Available in wall-mounted or 19" rack version for a smooth professional integration
- Smart energy management with AI models
- Smooth operation with all battery technologies. Lithium-ready, integrated CAN communication with lithium batteries BMS
- Multiple combination possibilities: parallel operation with one internal transfer, multi-unit and multi-battery system (not yet available)
- Remote monitoring and control with studer professional portal and easy monitoring App

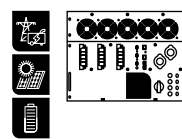
Options & accessories



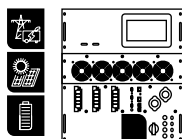
next3 st
next3 full option (standard)



next3 sti
next3 full option + interface



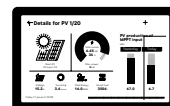
next3 rack st
next3 full option (standard)



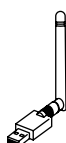
next3 rack sti
next3 full option + interface



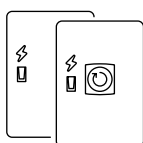
nx tempSensor
battery temperature sensor (included)



nx interface
next3 user interface



nx wifidongle
dongle for wifi connection



nx bypass box
AC cabinet with bypass
25, 40, 60, 80A



10 + 5

Certifications & Warranty

All our products include a 10-year warranty. The next3 is eligible for a warranty extension (10+5) with studercare+.

ISO certified factory
9001:2015, 14001:2015.



Designed and manufactured by studer in Switzerland

Inverter + battery charger Onduleur + chargeur de batterie | Wechselrichter + 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 / wechselrichter / 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 (Spannungsbereich) Tensión nominal de batería (rango de tensión)	48 Vdc (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 floating, periodic absorption Temperature compensation* with nx tempensor (included)	
Cos φ 0.1-1 Distorsion harmonique < 1 % Caractéristique de charge* 6 étapes: bulk, absorption, maintien, equalisation, maintien réduit, absorption périodique Compensation de la température* avec nx tempensor (inclus)	
Cos φ 0.1-1 Klirrfaktor < 1 % Ladecharakteristik* 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption Temperatur Kompensation* mit nx tempensor (inbegriffen)	
Cos φ 0.1-1 Distorsión armónica < 1 % Características de carga* bulk, absorción, flotación, equalización, flotación reducida, absorción periódica Compensación por temperatura* con nx tempensor (incluido)	

Solar PV Solaire PV | Solar PV | Solar FV

Number of MPPT inputs Nombre des entrées MPPT Anzahl der Eingänge MPPT 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	27 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	200 / 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 %	

Transfer Transfert | Transfer | Transferencia

AC source (grid or genset) Source AC (réseau ou génératrice) AC-Quelle (Netz oder Generator) Entrada AC (red o generator)	
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), Grid code compliance* Catégorie de surtension, Conformité au règlement connexion réseau* Überspannungskategorie, Einhaltung des Grid-Codes* Categoría de sobretensión, Normativa de conexión a red*	III, EU Commission Regulation 2016/631 (NC RfG), EN 50549-1:2019, VDE-AR-N 4105:2018, IEC 62116, IEC 61727

AC flex (2nd source or load) AC flex (2^{ème} entrée ou sortie) | AC flex (2. steuebare AC-eingang oder ausgang) | AC flex (2^a 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 Données générales | Allgemeine Daten | Datos generales

Product dimensions h/w/l and weight Dimensions h/L et poids du produit Produktabmessungen H/B/L und Gewicht Dimensiones A/a/l y peso del producto	wall-mounted: 320 / 450 / 760 mm 58 kg rack 19": 350(8u) / 485 / 675 mm 58 kg
Transport dimensions h/w/l and weight Dimension h/H et poids du transport Transportabmessungen H/B/L und Gewicht Dimensiones A/a/l y peso del transporte	600 / 800 / 720 mm 72 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)
I/O Communications I/O Communications I/O Kommunikation I/O Comunicación	2 x nx communication bus RJ45/8, 1 x CAN BMS, 1 x RS485i (Modbus), 1 x nx tempSensor
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 nx interface, datalogger USB 1-min resolution, 1 x RS485i, 1 x CANi, 1 x LAN, 4 x USB, nx wifidongle, studer portal + easy monitoring APP
Interfaces Interfaces Interfaces Interfaces	
Safety+EMC conformity (CE marking) Conformité sécurité+CEM (CE) Sicherheits+Elektromagnetische Konformität (CE) Conformidad seguridad+CEM (CE)	EU Low Voltage Directive (LVD) 2014/35/EU, 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

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
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