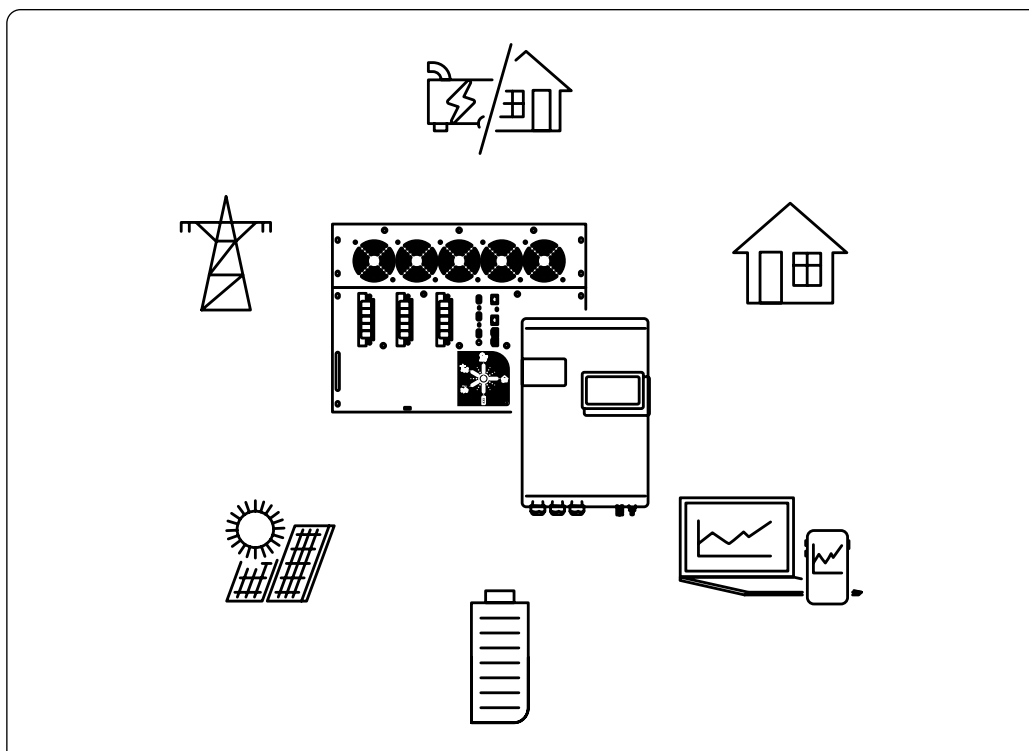


next3

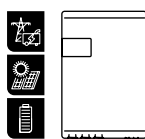
Our versatile 3-phase smart inverter charger with built-in solar MPPT inputs and a wide range of extraordinary features. Ensuring the swiss quality to have outstanding performances for both offgrid and ongrid applications, the next generation brings the battery-based systems to the next level.



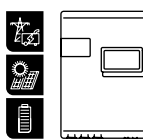
An all-rounder matching any project requirement

- 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
- Multi-units system: Up to three next3 units can be used on the same battery bank or on 3 different battery banks to create a high power inverter-charger system with one internal transfer. (up to 48kVA of power)
- Remote monitoring and control with studer professional portal and easy monitoring App

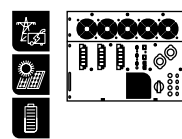
Options & accesories



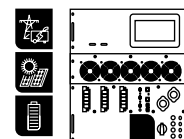
next3 st
next3 full option
(standard)



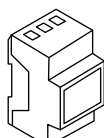
next3 sti
next3 full option +
interface



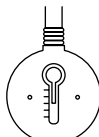
next3 rack st
next3 full option
(standard)



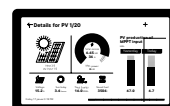
next3 rack sti
next3 full option +
interface



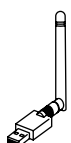
nx pm
power meter with
Modbus RTU



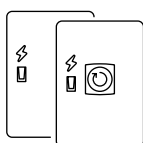
nx tempSensor
battery temperature
sensor (not included)



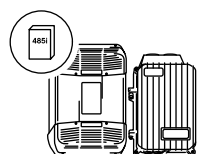
nx interface
next3 user interface



nx wifidongle
dongle for wifi
connection



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



vario series
solar charge controller with the
xcom 485i-nx accessory



See more about our warranty
conditions on our website
studer-innotech.com/studer-care

Certifications
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 / 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 (Spannungsbereich) Tensión nominal de batería (rango de tensión)		48 Vdc (36 - 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 (not included)		
Cos φ 0.1-1 Distorsion harmonique < 1 % Caractéristique de charge* 6 étapes: bulk, absorption, maintien, égalisation, maintien réduit, absorption périodique Compensation de la température* avec nx tempensor (non inclus)	Cos φ 0.1-1 Klirrfaktor < 1 % Ladecharakteristik* 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption Temperatur Kompensation* mit nx tempensor (nicht inbegriffen)	Cos φ 0.1-1 Distorsión armónica < 1 % Características de carga* bulk, absorción, flotación, eequalización, flotación reducida, absorción periódica Compensación por temperatura* con nx tempensor (no incluido)

Solar PV Solaire PV | Solar PV | Solar FV

Number of MPPT inputs Nombre des entrées MPPT Anzahl der EingängeMPPT Número de entradas MPPT		2
Max PV short circuit current per PV input / nominal current Courant max de court circuit par entrée PV / courant nominal Max PV-Strom pro PV-Eingang / Nennstorm Corriente max de cortocircuito por entrada FV / corriente nominal 27 Adc / 20 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 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), 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. steueubare 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

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/L/H et poids du transport Transportabmessungen H/B/L und Gewicht Dimensiones A/a/l y peso del transporte		600 / 800 / 720 mm 75kg
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		EU Low Voltage Directive (LVD) 2014/35/EU, EU Electromagnetic Compliance (EMC) 2014/30/EU
Safety+EMC conformity (CE marking) Conformité sécurité+CEM (CE) Sicherheits+Elektromagnetische Konformität (CE) Conformidad seguridad+CEM (CE)		
Ingress Protection according to IEC60529 IP20 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 IP20 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 IP20 Betriebstemperatur -20 to 55°C Relative Lüftfeuchtigkeit bei Betrieb 5 - 95 % (nicht Kondensierend) Montageort Indoor, unkontioniert	Índice de protección según IEC60529 IP20 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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