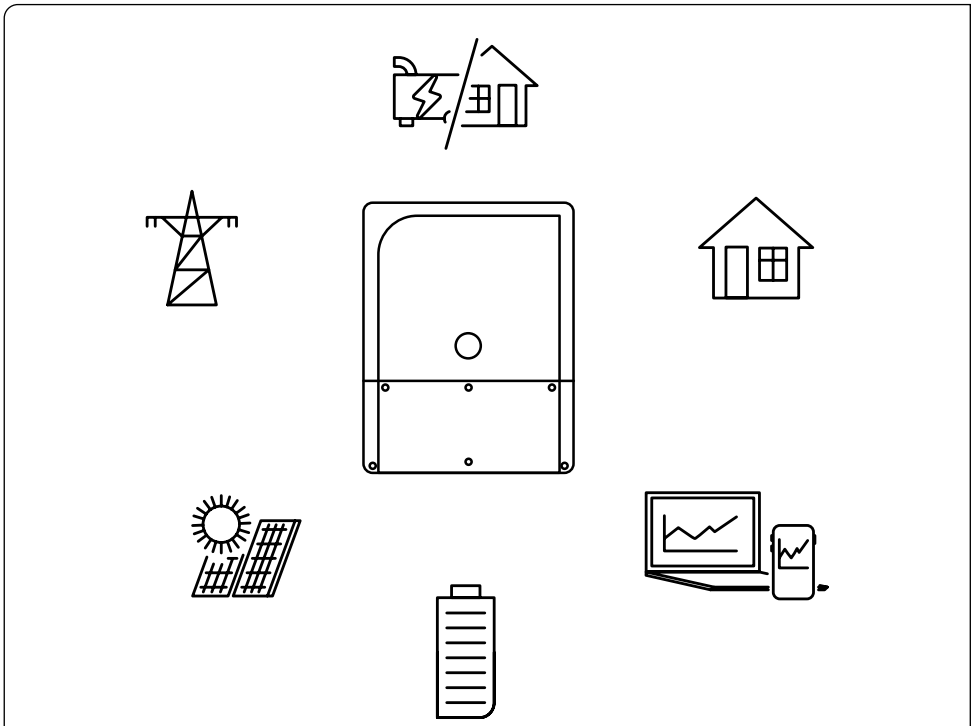
next1

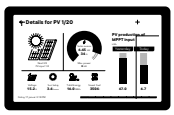
The new smart inverter-charger for offgrid and grid-tied applications.
A single-phase smart inverter-charger with low frequency topology ensuring the highest overload capability and the minimum standby consumption.



Versatility and outstanding performance

- Available in wall-mounted version and adaptable for 19" rack version for professional integration.
- The versatility of the next allow to create more powerful systems by paralleling units and leave you room for ongoing capacity upgrades.
- The unique **AC flex** interface can be configured as a second source or an extra controlled load
- Full interactive grid inverter including automatic backup transfer with double disconnection relay with the grid
- The Smart Boost function helps adapting to the source limitations with the battery in the most versatile way, facilitating for example phase balancing or peak-shaving
- System oriented, the new power flow® dispatcher centralizes the power management of the complete system integrally

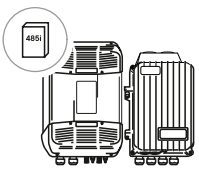
Options & accesories



nx interface
user interface

nx power meter
AC meter for advanced EM

nx tempSensor
battery temperature sensor



nx vario
solar charge controller

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

ISO certified factory 9001:2015, 14001:2015.

Designed and manufactured by studer in Switzerland

	nx1 6500-48	nx1 4500-48
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	4500 VA	3500 VA
Power 30 min. 25°C Puissance 30 min. 25°C | Leistung 30 Min. 25°C | Potencia 30 min. 25°C	6500 VA	4500 VA
Power 5 sec. 25°C / inverter / 1-phase Puissance 5 sec. 25°C / onduleur / 1-phase | Leistung 5 Sek. 25°C / weschelrichter / 1-Phase | Potencia 5 seg. @25°C / inversor / 1 fase	12000 VA	10500 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%)	Pure sine wave 220/230/240 Vac (±1%)
Nominal output frequency* Fréquence sortie nominale| Nennausgangsfrequenz | Frecuencia nominal de salida	50/60 Hz (±0.02%)	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 (38 – 68 Vdc)	48 Vdc (38 – 68 Vdc)
Maximum charging current Courant de charge maximum | Maximaler Ladestrom | Corriente de carga máxima	125 Adc	87 Adc

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 (not included)

Cos φ 0.1-1 | **Distorsion harmonique** < 1 % | **Caractéristique de charge*** 6 étapes : bulk, absorption, maintien, egalisation, maintien réduit, absorption périodique | **Compensation de la température*** avec nx tempsensor (non inclus)

Cos φ 0.1-1 | **Klirrfaktor** < 1 % | **Ladecharakteristik*** 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption | **Temperatur Kompensation*** mit nx tempsensor (nicht inbegriffen)

Cos φ 0.1-1 | **Distorsión armónica** < 1 % | **Características de carga*** bulk, absorción, flotación, ecualización, flotación reducidad, absorción periódica | **Compensación por temperatura*** con nx tempsensor (no incluido)

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	80 Aac	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	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 Vac	220 / 230 / 240 Vac
Nominal frequency* Fréquence nominale | Nennfrequenz | Frecuencia nominal	50 / 60 Hz	50 / 60 Hz
Overvoltage category (OVC) Catégorie de surtension | Überspannungskategorie | Categoría de sobretensión	III	III
Grid code compliance* Conformité au règlement connexion réseau | Einhaltung des Grid-Codes | Cumplimiento de la normativa de connexión a la red	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 (2ème entrée ou sortie) | AC flex (2. steueubare AC-eingang oder ausgang) | AC flex (2da entrada o salida)**		
Maximum rated current Courant nominal maximal | Maximaler Nennstrom | Corriente nominal máxima	50 Aac	50 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	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 Vac	220 / 230 / 240 Vac
Nominal frequency* Fréquence nominale| Nennfrequenz | Frecuencia nominal	50 / 60 Hz	50 / 60 Hz

General data Données générales | Allgemeine Daten | Datos generales

Product dimensions h/w/l and weight Dimensions h/l/L et poids du produit | Produktabmessungen H/B/L und Gewicht | Dimensiones A/a/l y peso del producto	182 / 439 / 575 mm 39 kg	182 / 439 / 575 mm 36 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	275 / 495 / 630 mm 42kg	275 / 495 / 630 mm 39kg
Selfconsumption OFF / Standby / ON Autoconsommation OFF / Standby / ON | Eigenverbrauch OFF / Standby / ON | autoconsumo OFF / Standby / ON	3 / 7 / 28 W	3 / 6 / 26 W
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 digital Input, 2 x analogical Input, 2 x Aux output rating 16 A each	
Interfaces Interfaces | Interfaces | Interfaces	nx interface, datalogger USB 1-min resolution, 1 x RS485i, 1 x LAN, 2 x USB, nx wifidongle, studer portal + easy monitoring App	
Safety+EMC conformity (CE marking) Conformité sécurité (CE) | Sicherheitskonformität (CE) | Conformidad seguridad (CE)	EU Low Voltage Directive (LVD) 2014/35/EU, EU Electromagnetic Compliance (EMC) 2014/30/EU	
Ingress Protection according to IEC60529	IP65	

Operating ambient temperature range -20 to 60°C | **Relative humidity operation range** 100 % (non condensing) | **Mounting location** indoor, unconditioned

Indice de protection selon IEC60529 IP54 | **Plage de température de travail** -20 to 60°C | **Humidité relative de fonctionnement** 100 % (sans condensation) | **Emplacement de montage** intérieur, non conditionné

Schutzart nach IEC60529 IP54 | **Betriebstemperatur** -20 to 60°C | **Relative Lüftfeuchigkeit bei Betrieb** 100 % (nicht Kondensierend) | **Montageort** Indoor, unkonditioniert

Índice de protección según IEC60529 IP54 | **Rango de temperatura de trabajo** -20 to 60°C | **Humedad relativa de funcionamiento** 5 - 100 % (sin condensación) **Lugar de montaje** interior, sin acondicionar