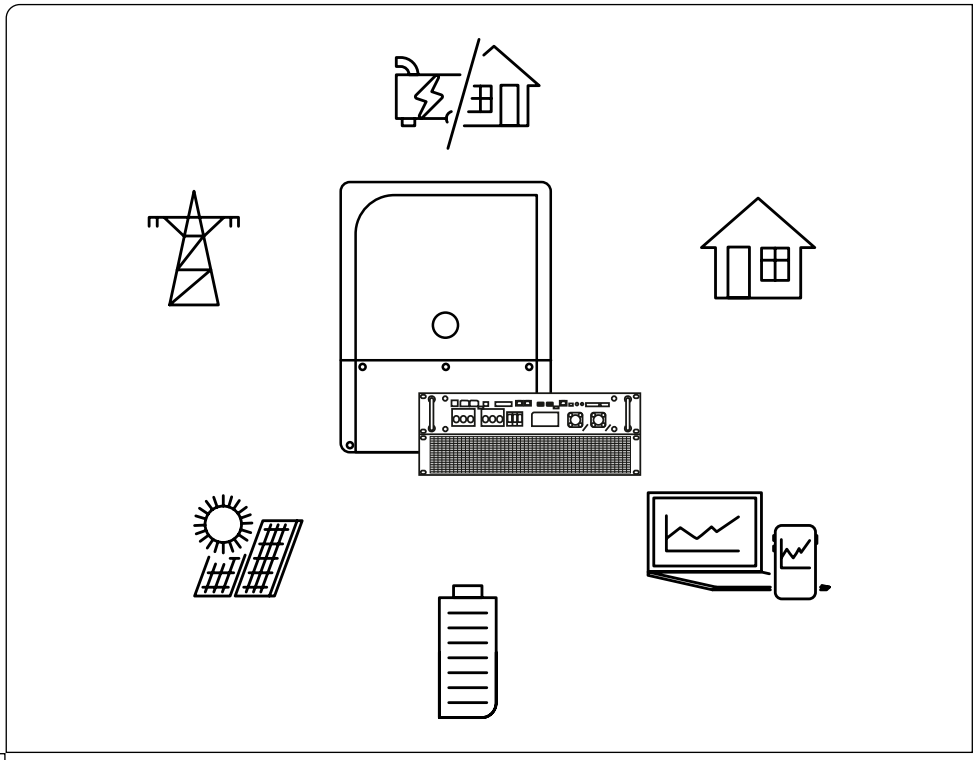
next1

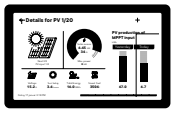
The new smart inverter-charger for offgrid and grid-tied applications.
A single-phase smart inverter-charger with low frequency topology ensuring the highest overload capability and the minimum standby consumption.



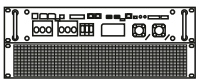
Versatility and outstanding performance

- Available in wall-mounted version and 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 Boost2 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

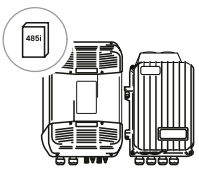


nx interface
user interface



nx1 rack

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
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
Power 30 min. 25°C Puissance 30 min. 25°C | Leistung 30 Min. 25°C | Potencia 30 min. 25°C	6500 VA
Power 5 sec. 25°C with solar / inverter / 1-phase Puissance 3 sec. 25°C avec solaire / onduleur / 1-phase | Leistung 3 Sek. 25°C mit PV / weschelrichter / 1-Phase | Potencia 3 seg. @25°C con solar / inversor / 1 fase	12000 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 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 (38 – 68 Vdc)
Maximum charging current Courant de charge maximum | Maximaler Ladestrom | Corriente de carga máxima	125 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 (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 (inclus)

Cos φ 0.1-1 | **Klirrfaktor** < 1 % | **Ladecharakteristik*** 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption | **Temperatur Kompensation*** mit nx tempsensor (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 (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
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 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* 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
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 Vac
Nominal frequency* Fréquence nominale| Nennfrequenz | Frecuencia nominal	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 / 580 mm 35 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	NYA
Selfconsumption OFF / Standby / ON Autoconsommation OFF / Standby / ON | Eigenverbrauch OFF / Standby / ON | autoconsumo OFF / Standby / ON	3 / 7 / 20 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 55°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 55°C | **Humidité relative de fonctionnement** 100 % (sans condensation) | **Emplacement de montage** intérieur, non conditionné

Schutzart nach IEC60529 IP54 | **Betriebstemperatur** -20 to 55°C | **Relative Lüftfeuchigkeit bei Betrieb** 100 % (nicht Kondensierend) | **Montageort** Indoor, unkonditioniert

Índice de protección según IEC60529 IP54 | **Rango de temperatura de trabajo** -20 to 55°C | **Humedad relativa de funcionamiento** 5 - 100 % (sin condensación) | **Lugar de montaje** interior, sin acondicionar