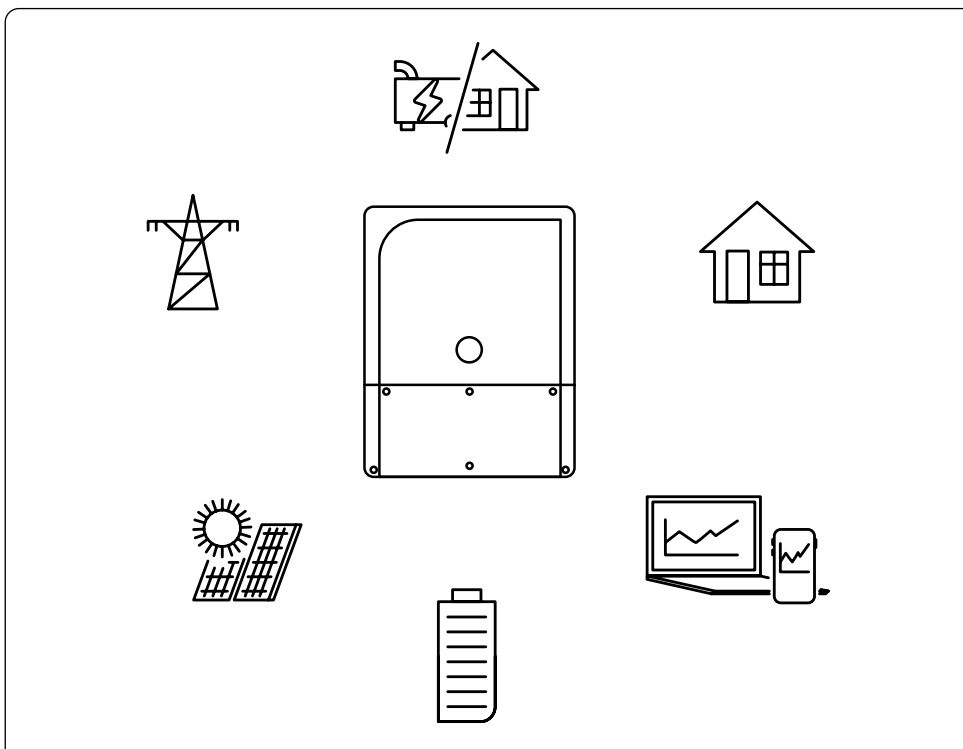


next1

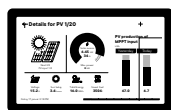
The new smart inverter-charger for offgrid and grid-tied applications.
A single-phase smart inverter-charger with low frequency topology ensuring the highest overload capability and the minimum standby consumption.



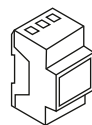
Versatility and outstanding performance

- 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 & accessories



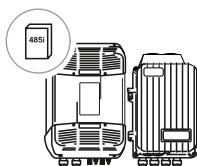
nx interface
user interface



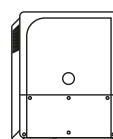
nx power meter
AC meter for advanced EM



nx tempSensor
battery temperature sensor



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



nx1 19" rack plate
adaptation mounting plate for 19" rack



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

Certifications
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, equalización, flotación reducida, 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 conexión 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 (2^{ème} entrée ou sortie) AC flex (2. steuebare AC-eingang oder ausgang) AC flex (2^{da} 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 Luftfeuchtigkeit 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