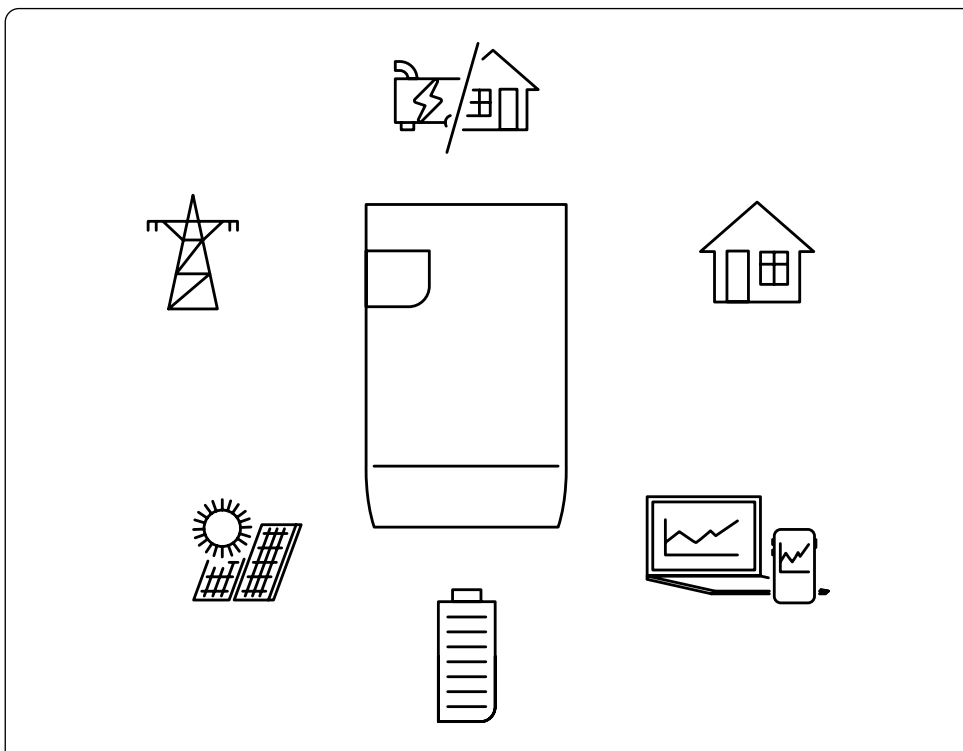


# next1

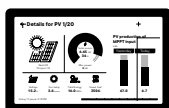
The new smart inverter-charger for off-grid and grid-tied applications. A single-phase smart inverter-charger with low frequency topology ensuring the highest overload capability and the minimum standby consumption.



### Versatility and outstanding performance

- Available in wall-mounted version and 19" rack version for professional integration. Also available in 120Vac and UL compliant
- 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

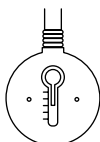
### Options & accessories



**nx interface**  
user interface



**nx1 rack**



**nx tempSensor**  
battery temperature sensor (included)



**nx wifidongle**  
dongle for wifi connection



## 10 + 5

### Certifications & Warranty

All our products include a 10-year warranty. The next1 is eligible for a warranty extension (10+5) with studercare+.

ISO certified factory  
9001:2015, 14001:2015.



Designed and manufactured  
by studer in Switzerland

nx1 6000-48

nx1 6000-48 US

## Inverter + battery charger Onduleur + chargeur de batterie | Wechselrichter + Batterielader | Inversor + Cargador de batería

<b>Continuous power 25°C</b> Puissance continue 25°C   Dauerleistung 25°C   Potencia continua 25°C	4500 VA	4500 VA
<b>Power 30 min. 25°C</b> Puissance 30 min. 25°C   Leistung 30 Min. 25°C   Potencia 30 min. 25°C	6500 VA	6500 VA
<b>Power 5 sec. 25°C with solar / inverter / 1-phase</b> Puissance 3 sec. 25°C avec solaire / onduleur / 1-phase   Leistung 3 Sek. 25°C mit PV / wechselrichter / 1-Phase   Potencia 3 seg. @25°C con solar / inversor / 1 fase	12000 VA	12000 VA
<b>Nominal output voltage, line to neutral*</b> 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 110/120/130 Vac (±1%)
<b>Nominal output frequency*</b> Fréquence sortie nominale   Nennausgangsfrequenz   Frecuencia nominal de salida	50/60 Hz (±0.02%)	60/50 Hz (±0.02%)
<b>Nominal battery voltage (Input range)</b> Tension nominale de la batterie (plage de tension)   Nominalspannung der Batterie   Tensión nominal de batería	48 Vdc (38 - 68 Vdc)	
<b>Maximum charging current</b> Courant de charge maximum   Maximaler Ladestrom   Corriente de carga máxima	125 Adc	125 Adc
<b>Cos φ 0.1-1   Harmonic distortion &lt; 1 %   Charge characteristic* 6 steps: bulk, absorption, floating, equalization, reduced floating, periodic absorption   Temperature compensation*</b> with nx tempensor (included)		
<b>Cos φ 0.1-1   Distorsion harmonique &lt; 1 %   Caractéristique de charge*</b> 6 étapes: bulk, absorption, maintien, égalisation, maintien réduit, absorption périodique   <b>Compensation de la température*</b> avec nx tempensor (inclus)	<b>Cos φ 0.1-1   Klirrfaktor &lt; 1 %   Ladecharakteristik*</b> 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption   <b>Temperatur Kompensation*</b> mit nx tempensor (inbegriffen)	<b>Cos φ 0.1-1   Distorsión armónica &lt; 1 %   Características de carga*</b> bulk, absorción, flotación, equalización, flotación reducida, absorción periódica   <b>Compensación por temperatura*</b> con nx tempensor (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)**

<b>Maximum rated current</b> Courant nominal maximal   Maximaler Nennstrom   Corriente nominal máxima	70 Aac	
<b>Operating voltage range, line to neutral</b> Plage de tension, phase-neutre   Betriebsspannungsbereich, Phase zum Neutralleiter   Rango de tensión de funcionamiento, fase-neutro	176 - 288 Vac	
<b>Nominal voltage, line to neutral / line to line*</b> Tension nominale, phase-neutre / phase-phase   Nennspannung - Phase zum Neutralleiter / Phase zum Phaseleiter   Tensión nominal, fase-neutro / fase-fase	220 / 230 / 240 Vac	
<b>Nominal frequency*</b> Fréquence nominale   Nennfrequenz   Frecuencia nominal	50 / 60 Hz	
<b>Overvoltage category (OVC)</b> Catégorie de surtension   Überspannungskategorie   Categoría de sobretensión	III	
<b>Grid code compliance*</b> 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 (2<sup>nd</sup> source or load) AC flex (2<sup>ème</sup> entrée ou sortie) | AC flex (2. steuebare AC-eingang oder ausgang) | AC flex (2<sup>a</sup> entrada o salida)**

<b>Maximum rated current</b> Courant nominal maximal   Maximaler Nennstrom   Corriente nominal máxima	40 Aac	
<b>Operating voltage range, line to neutral</b> Plage de tension, phase-neutre   Betriebsspannungsbereich, Phase zum Neutralleiter   Rango de tensión de funcionamiento, fase-neutro	176 - 288 Vac	60 - 150 Vac
<b>Nominal voltage, line to neutral / line to line*</b> Tension nominale, phase-neutre / phase-phase   Nennspannung - Phase zum Neutralleiter / Phase zum Phaseleiter   Tensión nominal, fase-neutro / fase-fase	220 / 230 / 240 Vac	110 / 120 / 130 Vac
<b>Nominal frequency*</b> Fréquence nominale   Nennfrequenz   Frecuencia nominal	50 / 60 Hz	60 / 50 Hz

## General data Données générales | Allgemeine Daten | Datos generales

<b>Product dimensions h/w/l and weight</b> Dimensions h/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
<b>Transport dimensions h/w/l and weight</b> Dimension h//H et poids du transport   Transportabmessungen H/B/L und Gewicht   Dimensiones A/a/l y peso del transporte	NYA
<b>Selfconsumption OFF / Standby / ON</b> Autoconsommation OFF / Standby / ON   Eigenverbrauch OFF / Standby / ON   autoconsumo OFF / Standby / ON	3 / 7 / 20 W
<b>I/O Communications</b> 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
<b>Multifunction I/O contacts</b> 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
<b>Interfaces</b> 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
<b>Safety+EMC conformity (CE marking)</b> Conformité sécurité (CE)   Sicherheitskonformität (CE)   Conformidad seguridad (CE)	EU Low Voltage Directive (LVD) 2014/35/EU, EU Electromagnetic Compliance (EMC) 2014/30/EU
<b>Ingress Protection according to IEC60529</b>	IP65
<b>Operating ambient temperature range -20 to 55°C   Relative humidity operation range 100 % (non condensing)   Mounting location indoor, unconditioned</b>	
<b>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</b>	<b>Schutzart nach IEC60529 IP54   Betriebstemperatur -20 to 55°C   Relative Luftfeuchtigkeit bei Betrieb 100 % (nicht Kondensierend)   Montageort Indoor, unconditioniert</b>
	<b>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</b>