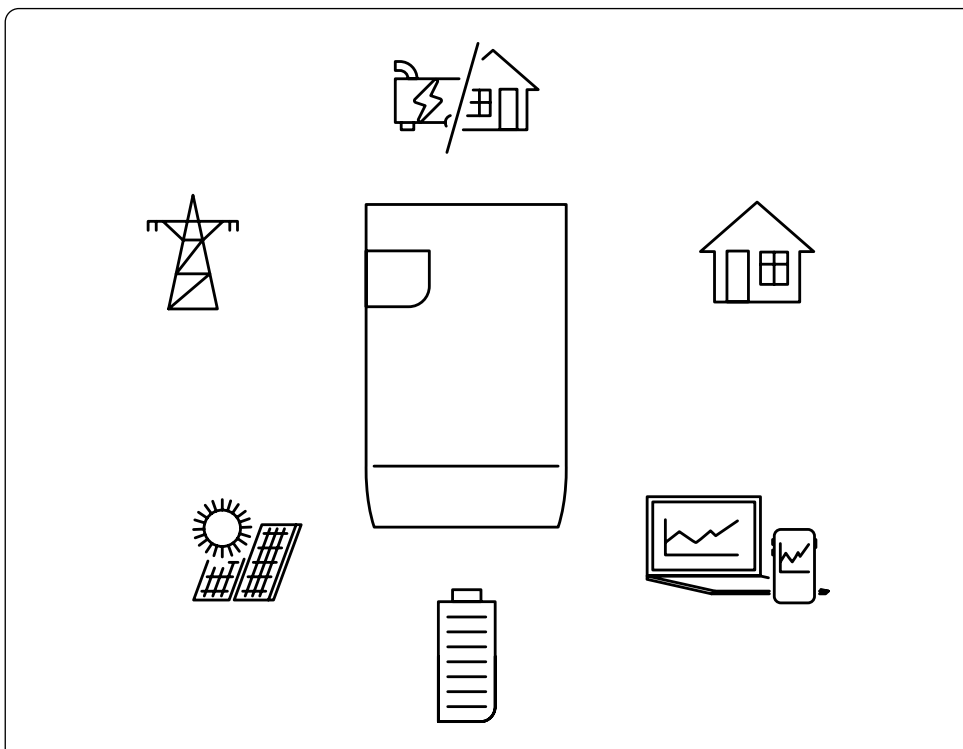


next1

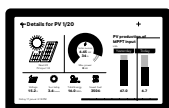
The new smart inverter-charger for off-grid and grid-tied applications. A single-phase smart inverter-charger with low frequency topology ensuring the highest overload capability and the minimum standby consumption.



Versatility and outstanding performance

- The next1 will consist of a full range of devices for 12, 24 and 48 V batteries and with a different range of power to fit every project requirement and application.
- 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
- The electronic elements come with standard coating and IP30 for a high hardware reliability
- 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



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

	nx1-12	nx1-24	nx1-48
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	2000 VA	3000 VA	3600 VA
Power 30 min. 25°C Puissance 30 min. 25°C Leistung 30 Min. 25°C Potencia 30 min. 25°C	NYA		
Power 3 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 / wechselrichter / 1-Phase Potencia 3 seg. @25°C con solar / inversor / 1 fase	NYA		
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	12 Vdc	24 Vdc	48 Vdc
Battery voltage range Plage de tension batterie Batteriespannungsbereich Rango de tensión de batería	9.5 - 17 Vdc	19 - 34 Vdc	38 - 68 Vdc
Maximum charging current Courant de charge maximum Maximaler Ladestrom Corriente de carga máxima	100 Adc	90 Adc	60 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 tempensor (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 tempensor (inclus)	Cos φ 0.1-1 Klirrfaktor < 1 % Ladecharakteristik* 6 Stufen: Bulk, Absorption, Schwebeladung, Equalisierung, reduzierte Schwebeladung, periodische Absorption Temperatur Kompensation* mit nx tempensor (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 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)			
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 / 380 - 400 - 415 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 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		
Operating voltage range, line to neutral Plage de tension, phase-neutre Betriebsspannungsbereich, Phase zum Neutralleiter Rango de tensión de funcionamiento, fase-neutro	176 - 276 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	150 / 370 / 550 mm NYA 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	6 / 7 / 41 W (+5 W with nx interface)		
Multifunction I/O contacts Contacts multifonctions I/O Multi-funktionskontakte I/O Contactos multifuncionales I/O	2x Input, 2x Output		
Safety conformity (CE marking) Conformité sécurité (CE) Sicherheitskonformität (CE) Conformidad seguridad (CE)	EU Low Voltage Directive (LVD) 2014/35/EU -> EN/IEC 62109-1, 62109-2, 62477-1		
EMC conformity (CE marking) Conformité CEM (CE) Elektromagnetische Konformität (CE) Conformidad CEM (CE)	EU ElectroMagnetic Compliance (EMC) 2014/30/EU -> EN/IEC 61000-6-1, 61000-6-2, 61000-6-3, 61000-6-4, 62920, 61000-3-2, 61000-3-3		
Ingress Protection according to IEC60529 IP30 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 IP30 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 IP30 Betriebstemperatur -20 to 55°C Relative Luftfeuchtigkeit bei Betrieb 5 - 95 % (nicht Kondensierend) Montageort Indoor, unconditioniert	Índice de protección según IEC60529 IP30 Rango de temperatura de trabajo -20 to 55°C Humedad relativa de funcionamiento 5 - 95 % (sin condensación) Lugar de montaje interior, sin acondicionar	