

# Conext SW-NA hybrid inverter/charger

## New value in off-grid solar and backup power

Conext™ SW delivers new value and a new price point to installers and system owners globally. Perfect for off-grid, backup power and self-consumption applications, it's a pure sine wave, inverter/charger system with switchable 50/60 Hz frequencies, providing power for every need.

North American Conext SW units feature 120/240 VAC output, and capable of producing 120/240 VAC output from a 120 VAC input, without the need for an external transformer.

For expanded off-grid capacity, the Conext SW is integrated with fuel-based generators as required to support loads larger than the generator's output. It's also self consumption ready, able to prioritize solar consumption over the grid, while maintaining zero grid export. The Conext SW works with the grid to avoid peak utility charges and support the grid when utility supply is limited. Accessories include pre-wired universal DC distribution panel and AC distribution panels. Stacking two Conext SW units will double the system's total output power and available solar charge controllers allow for the integration of solar capacity as required.

### Why choose Conext SW-NA?



#### Higher return on investment

- Cost effective
- Excellent load start capabilities with high 30-minute and 5-second surge power
- Harness the continuously declining production cost of solar power



#### Designed for reliability

- Robust design through rigorous reliability testing (HALT)



#### Flexible

- Available in 24VDC and 48VDC models. All models support both 50Hz and 60Hz output
- Stack two units to double output power up to 8 kW
- Supports AC coupled and DC coupled off-grid and grid-tie architectures
- Intelligent functionality enables self consumption with solar prioritization, peak shaving and, assisting small generators with heavy loads



#### Easy to service

- Monitor, troubleshoot or upgrade firmware with the Conext ComBox
- Global support and training
- Replaceable boards and spare parts



#### Easy to install

- Configures quickly into compact wall mounted system
- Companion breaker panels integrate inverter with battery bank and solar charge controllers
- Mounting bracket design makes hanging inverter on the wall easy



### Product applications



Residential backup power



Off-grid solar

Device short name	SW 2524 NA	SW 4024 NA	SW 4048 NA
<b>Electrical specifications - inverter</b>			
Output power (continuous) at 25°C	2400 W	3400 W	3800 W
Output power (30 min) at 25°C	2700 W	4000 W	4400 W
Output power (5 sec) at 25°C	5000 W	7000 W	7000 W
Peak current	24.3 A	41 A	41 A
Output frequency	50 / 60 Hz selectable	50 / 60 Hz selectable	50 / 60 Hz selectable
Output voltage	120 / 240 Vac	120 / 240 Vac	120 / 240 Vac
Output wave form	True sine wave	True sine wave	True sine wave
Optimal efficiency	91.5%	92%	92%
Idle consumption search mode	<11 W	<11 W	<11 W
Input DC voltage range	20 - 34 Vdc	20 - 34 Vdc	40 - 68 Vdc
AC connections	Single / Split phase	Single / Split phase	Single / Split phase
<b>Electrical specifications - charger</b>			
Output current	65 A	90 A	45 A
Nominal output voltage	24 Vdc	24 Vdc	48 Vdc
Output voltage range	12- 32 Vdc	12 - 32 Vdc	24 - 64 Vdc
Charge control	3 stage	3 stage	3 stage
Charge temperature compensation	Yes - BTS included	Yes - BTS included	Yes - BTS included
Optimal efficiency	90%	90%	90%
AC input power factor	> 0.98	> 0.98	> 0.98
Input current	9 A	13 A	13 A
Input AC voltage	120 / 240 Vac split phase	120 / 240 Vac split phase	120 / 240 Vac split phase
Input AC voltage range line to neutral	95 - 135 Vac single phase 135 - 270 Vac split phase	95 - 135 Vac single phase 135 - 270 Vac split phase	95 - 135 Vac single phase 135 - 270 Vac split phase
Dead battery charge	Yes*	Yes*	Yes*
<b>General specifications</b>			
Compatible battery types	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom
Transfer relay rating	30 A	30 A	30 A
Transfer time (AC to inverter and inverter to AC)	<1 cycle (16.7 ms)	<1 cycle (16.7 ms)	<1 cycle (16.7 ms)
Optimal operating temperature range	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Storage ambient temperature range	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity Operation / storage	<=95% RH, non condensing	<=95% RH, non condensing	<=95% RH, non condensing
Ingress protection rating	Indoor only, IP20	Indoor only, IP20	Indoor only, IP20
Altitude (operating)	2000 m (6562 ft)	2000 m (6562 ft)	2000 m (6562 ft)
Product weight	22.3 kg (49.0 lb)	28.1 kg (62.0 lb)	28.1 kg (62.0 lb)
Shipping weight	27.2 kg (60.0 lb)	35.0 kg (77.1 lb)	35.0 kg (77.1 lb)
Product dimensions (H x W x D)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)	41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)
Shipping dimensions (H x W x D)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)	56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)
System network and remote monitoring	Available	Available	Available
Warranty (Depending on the country of installation)	2 or 5 years	2 or 5 years	2 or 5 years
Part number	865-2524	865-4024	865-4048
<b>Regulatory approvals</b>			
Safety	c(CSA) us mark CSA C22.2 No. 107.1-01 UL1741 Ed.2	c(CSA) us mark CSA C22.2 No. 107.1-01 UL1741 Ed.2	c(CSA) us mark CSA C22.2 No. 107.1-01 UL1741 Ed.2
<b>Compatible products</b>			
Universal DC distribution panel	865-1016		
AC distribution panel (120/240 V)	865-1017		
AC distribution panel (230 V)	865-1017-61		
Conext System Control Panel	865-1050		
Conext Automatic Generator Start	865-1060		
Conext ComBox	865-1058		
Conext MPPT 60 150 solar charge controller	865-1030-1		
Conext SW On/Off Remote Switch	865-1052		
Conext SW Stacking Kit	865-1019-61 for 230 Vac, 865-1019 for 120/240 Vac		
Conext Portable Installation and Configuration Tool	Product no. 865-1155-01		

Specifications are subject to change without notice.