

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 |
|---|---|---|---|
| Electrical specifications - inverter | | | |
| 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 |
| Electrical specifications - charger | | | |
| 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* |
| General specifications | | | |
| 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 |
| Regulatory approvals | | | |
| 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 |
| Compatible products | | | |
| 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.