

Proven value for off-grid, backup power and self-consumption



Why a Conext SW?

Offering a reliable power system for the residential market, small business or remote communities, the Conext SW is a pure sine wave battery inverter loaded with features that keeps your power on 24 hours a day, 7 days a week.

- **Flexible design** allows it to be configured for any battery based inverter application (off-grid, backup power and self-consumption for new or retrofit installations).
- **Increase self-consumption** by prioritizing use of PV energy over grid energy, store surplus PV in batteries for later use during peak time-of-use periods.
- **Reduce demand charges** by using Conext SW's peak-load shaving feature to offset high cost peak demand energy.
- Secure against an unreliable grid with a long term solar backup even in the most challenging environments. The Conext SW is **battery agnostic**, allowing a wide range of battery storage solutions.
- Provide a **total grid-independence** for off-grid installations with PV power. Reduce the cost of fossil fuel usage generator, maintenance and repair. Enjoy the freedom to **power the toughest loads** with the high surge rating of the product.
- **Simple industrial design** along with an installation bracket make it easy to install by a single installer, and a basic user interface avoids accidental settings change by end-user.

The Conext SW is the perfect go-to solution for off-grid, backup power and self-consumption for homes and small business. The Conext SW delivers a value added, easy to install system that provides efficient power globally for every need.

The Conext SW is the solution of choice

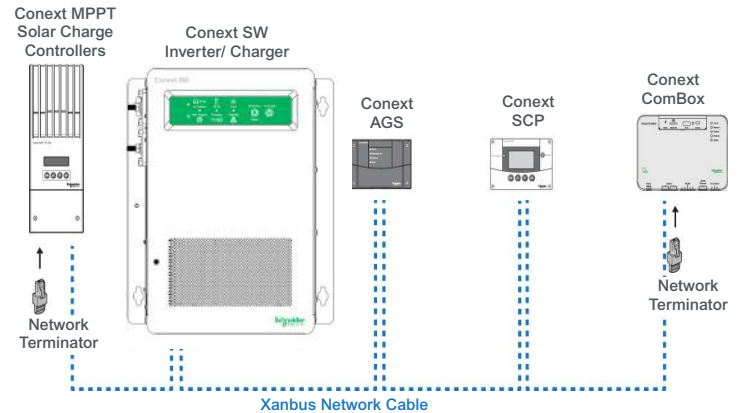
Off-grid, backup, or self-consumption, the Conext SW keeps the power on

Conext SW inverter/charger features

- The **integrated auto-transformer** allows the use of an on-site single phase (120Vac) generator to provide input power to the Conext SW inverter and create a split phase output power (120/240Vac North America only).
- AC-coupled **Smart Charge** ensures that batteries are charged only from PV power when AC-coupled. It provides power to charge batteries when excess PV power is available, load requirements are met, and energy is available for export to the grid.
- **AC and DC coupling** capability and easily adapts to PV retrofit scenarios.
- **Enhanced grid support** in DC-coupled PV with Xanbus enabled MPPT chargers ensures surplus PV is exported to the grid without cycling batteries. This increases battery life.
- Dead **battery charging** revives batteries that have been accidentally discharged in unattended sites, over an extended period, past the point that normal chargers can not recover them.
- **Frequency shift charging curtails** PV inverters when excess energy is available after the requirements of battery charging and load power are met, eliminating the need for diversion loads and achieving proper 3-stage charging.
- **Highest surge rating** in its class with 2 x maximum continuous output power up to 7000 Watts will start the toughest loads.
- **Advanced self-consumption** features of grid-support, peak-shaving, timer based charger block and time-of-use settings reduce the usage and cost of electricity.
- **Generator support** allows power to be automatically drawn from the batteries to assist a small efficient AC generator to support heavy loads.
- The lowest tare loss in its class and a timer based invert block feature ensures **maximum conservation of energy** under ideal use conditions.

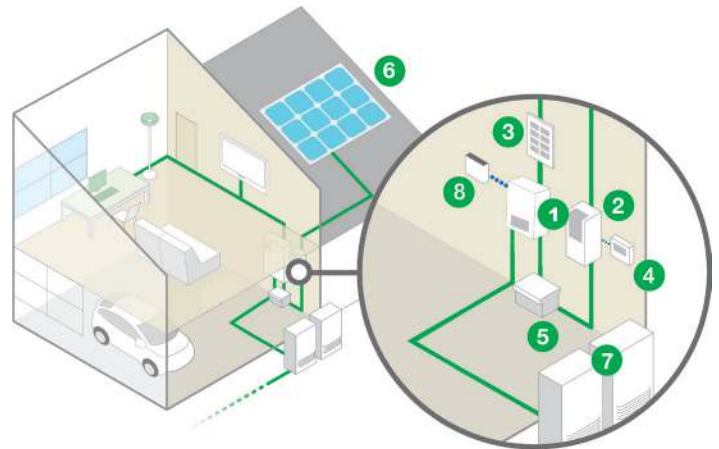
Conext ComBox is an advanced monitoring device with a web based user-interface, embedded data-logger for capturing performance data to analyze trends and a communication gateway to send notifications and reports by emails. It is a must have for any Conext SW installation.

XANBUS enabled networking - Plug and Play system



1. Plug and play devices load directly into the control panel. No need to set any addressing because they are auto-detected.
2. Support daisy chain wiring, no need to run all wires into a single hub, therefore simplifies the cabling.
3. Standard CAT 5 Ethernet cable for communications wiring, avoids mistakes in the field and easy to source.
4. Single communication bus for interaction between various devices, firmware upgrade, data-logging.
5. Highly robust, no dependency on external master, all units behave autonomously.

Self-consumption with DC-coupled solar solution

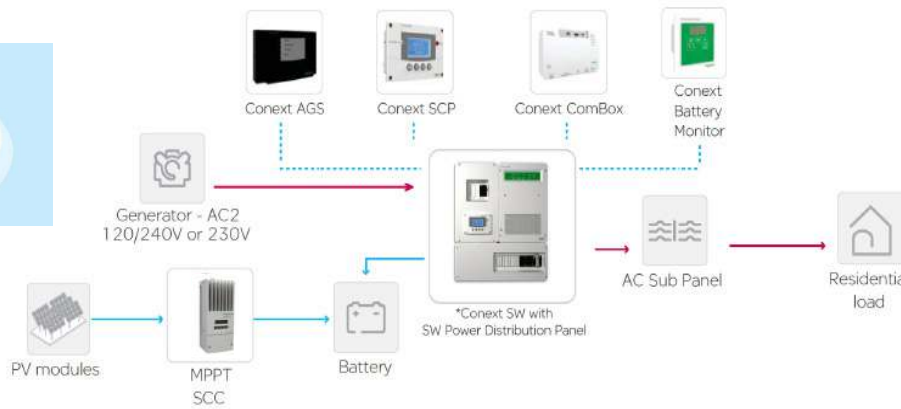


1. Conext SW
2. MPPT Charge controller
3. Critical load panel
4. System Control Panel
5. Battery bank
6. Solar Array
7. Electric Grid
8. Conext ComBox

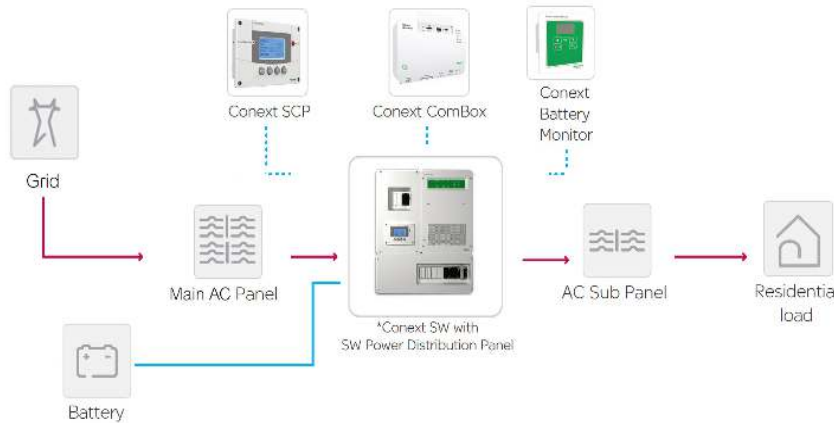
Expand the possibility of energy independence and secure backup power

Typical applications and simplified illustration of system wiring

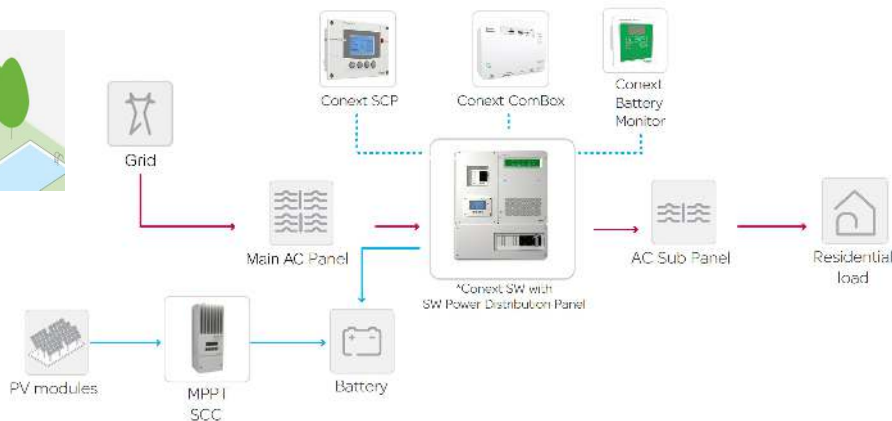
Off-grid solar



Backup power



Self-consumption with DC-coupled solar



Technical specifications

Conext SW inverter/charger

Conext SW Europe | North America

Device short name	SW 2524 230 120/240	SW 4024 230 120/240	SW 4048 230 120/240
Electrical specifications - inverter			
Output power (continuous) at 25°C	3000W	3400W	3800W
Output power (30min) at 25°C	3300W	4000W	4400W
Output power (5sec) at 25°C	5000W	7000W	7000W
Peak current	24.3A	42A / 41A	42A / 41A
Electrical specifications - charger			
Output current	65A	90A	45A
Nominal output voltage	24Vdc	24Vdc	48Vdc
Output voltage range	12-32Vdc	12-32Vdc	24-64Vdc
Charge control	2 or 3 stage	2 or 3 stage	2 or 3 stage
Part number - IEC	865-2524-61	865-4024-61	865-4048-61
Part number - UL	865-2524	865-4024	865-4048

Specifications are subject to change without notice

Conext SW Accessories



MPPT Charge Controller 60A 150v /80A 600V

Tracks the maximum power point of a PV array to deliver the maximum available DC current directly to the battery bank for charging.



Conext Battery Monitor

It indicates battery status, time remaining, state of charge and logs key battery status information for 10 years.



Conext ComBox

Enables Conext inverters and system devices to be remotely configured and monitored using a web browser or an Android tablet device.



Automatic Generator Start (AGS)

Automatically controls of a generator to provide Conext SW with power to recharge depleted batteries or assist with heavy loads.



Breaker Panel (AC or DC)

Pre-wired for quick installation with a single Conext SW and it ensures a safe connection to the battery bank, or directly to AC loads.



System Control Panel (SCP)

Provides a single point of control to setup and monitor an entire system of Conext SW Inverter/Chargers, MPPT Solar Charge Controllers, AGS modules etc.