

New value for off-grid solar and backup power

Conext SW inverter/chargers



Introducing the Conext SW inverter/charger

A cost-effective system delivering reliable power for off-grid solar and backup power applications

Delivering new value and a new price point to the marketplace, the Schneider Electric™ Conext™ SW inverter/charger is a pure sine wave system with selectable 50/60 Hz functionality is available for both 120/240 VAC or 230 VAC models.

Available DC and AC breaker panels, system control panel, remote monitoring, and automated generator start modules present even more value. Stacking two Conext SW will double the power. Solar charge controllers allow for the integration of solar capacity as required.

North American units feature split-phase input and output without the need for an external transformer.



The Schneider Electric Conext SW inverter/charger is shown with universal DC breaker panel and system control panel (each sold separately)



Why choose the **Conext SW** inverter/charger?



True bankability

- Warranty from a trusted partner with over 175 years of experience
- World leader in industrial power drives, UPS, and electrical distribution
- Strong service infrastructure worldwide to support your global needs



Higher return on investment

- Cost effective residential and community system
- Harness the continuously declining production cost of solar power



Flexible

- All models support both 50 Hz and 60 Hz output
- All models support stackable power



Easy to service

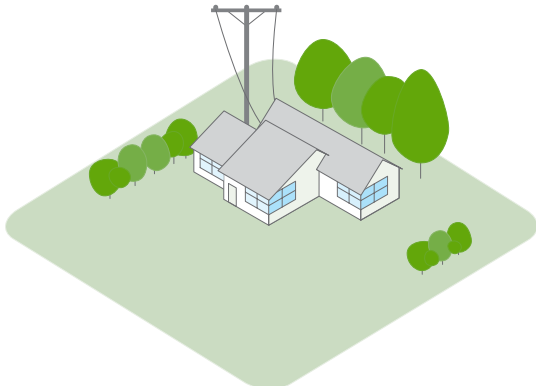
- Remote monitoring and configuration



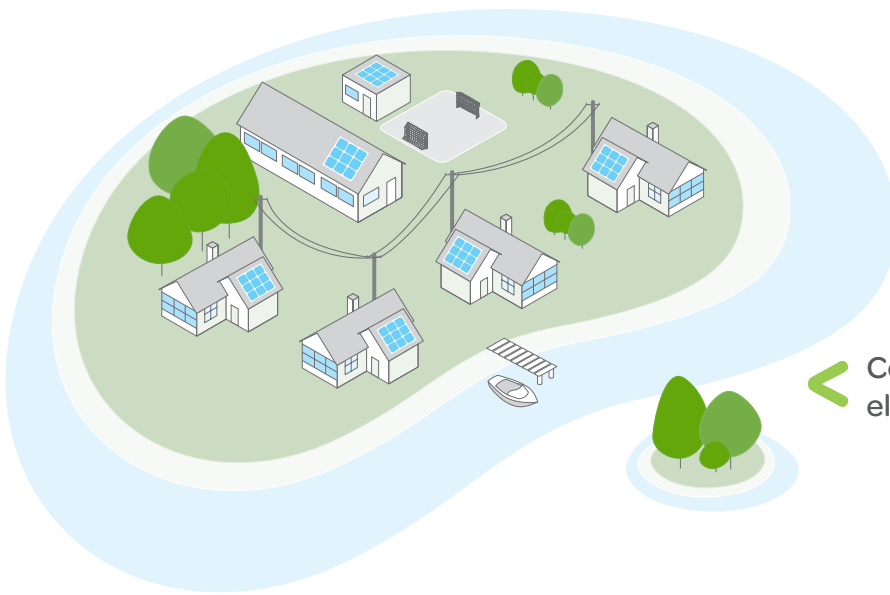
Easy to install

- Configures quickly into compact wall-mounted system
- Companion breaker panels integrate inverter with battery bank and solar charge controllers

Applications for the Conext SW inverter/charger



< Residential backup power



< Community electrification



< Residential off-grid solar

The Conext SW inverter/charger for
remote locations



Affordable power solutions for community and residential applications



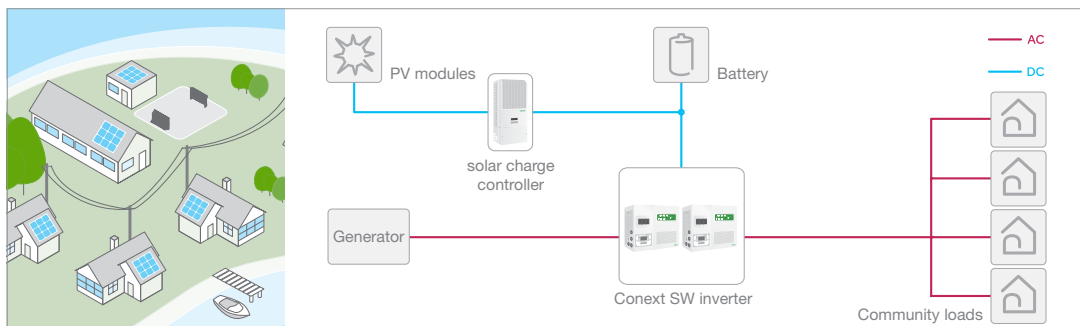
Conext SW offers great value for powering remote locations.

Community electrification

Conext SW affordably powers off-grid projects around the world and helps communities qualify for renewable energy funding programs to establish reliable, high-quality localised renewable power. The Conext SW system enables communities to benefit from using low cost, widely available AC appliances and tools, and from the continuously declining cost of renewable solar power generation.

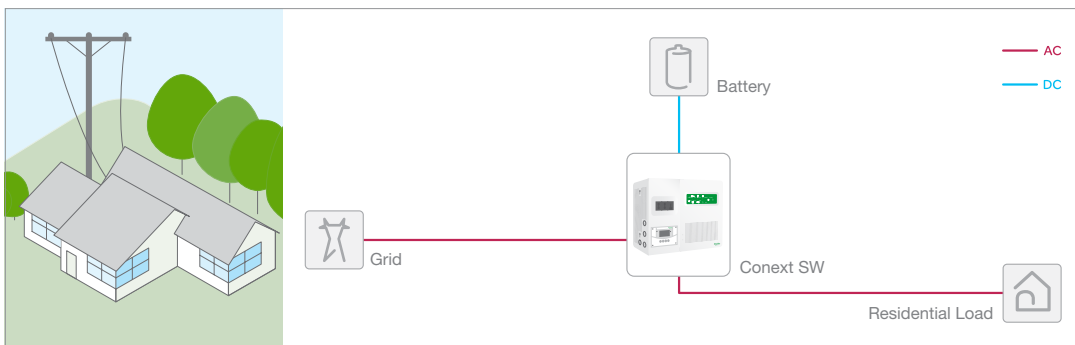
By coupling to renewable photovoltaic (PV) energy generation through the DC system, the Conext SW inverter/charger delivers a more affordable AC power solution than traditional off-grid systems that rely on power supplied solely from diesel generators. The Conext SW will also combine with diesel generators in a hybrid off-grid system increasing the flexibility and reliability of the entire system while still reducing community dependence on generators.

Remote system monitoring and management is available for the supervision of Conext SW and supporting system components.



Residential backup power

Unlike a plug-in backup power pack or portable generator, the Conext SW inverter/charger integrates into the electrical system and seamlessly converts power from battery reserves to support critical loads such as pumps, security systems, refrigerators and electronics in the event of a power outage or brown-out. When utility power is readily available, the Conext SW will keep the battery bank fully charged and ready for the next grid failure.

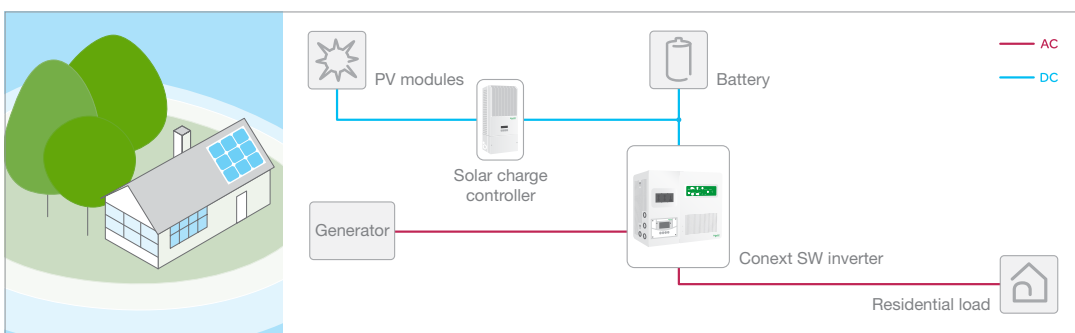


Residential off-grid solar

For off-grid home owners, Conext SW inverter/chargers provide AC power from batteries and system Maximum Power Point Tracking (MPPT) solar charge controllers enable PV power to directly charge batteries.

The pure sine wave output and high surge capabilities of Conext SW inverter/chargers start and run pumps with ease, enabling key water and sewage systems and assisting smaller generators to start difficult loads. Conext SW is easily combined with a fuel-based generator enabling cost effective hybrid off-grid power solutions and extended power when batteries are depleted.

The control and monitoring capabilities of the Conext SW system provides off-grid home owners with management information to ensure dependability is maintained and systems operate as they should.



Technical specifications

Device short name	SW 2524 120	SW 4024 120
Electrical specifications - inverter		
Output power (continuous) at 25°C	2500 W	3400 W
Output power (30 min) at 25°C	2700 W	4000 W
Output power (5 sec) at 25°C	4000 W	7000 W
Peak current	24.3 A	41 A
Output frequency	50 / 60 Hz selectable	50 / 60 Hz selectable
Output voltage	120 / 240 Vac	120 / 240 Vac
Output wave form	True sine wave	True sine wave
Optimal efficiency	91.5%	92%
Idle consumption search mode	<8 W	<8 W
Input DC voltage range	20 - 34 Vdc	20 - 34 Vdc
AC connections	Single / Split phase	Single / Split phase
Electrical specifications - charger		
Output current	65 A	90 A
Nominal output voltage	24 Vdc	24 Vdc
Output voltage range	12- 32 Vdc	12 - 32 Vdc
Charge control	3 stage	3 stage
Charge temperature compensation	Yes - BTS included	Yes - BTS included
Optimal efficiency	90%	90%
AC input power factor	> 0.98	> 0.98
Input current	9 A	13 A
Input AC voltage	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
Dead battery charge	Yes	Yes
General specifications		
Compatible battery types	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom
Transfer relay rating	30 A	30 A
Transfer time (AC to inverter and inverter to AC)	<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)
Storage ambient temperature range	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Product weight	23.0 kg (50.6 lb)	30.5 kg (67.1 lb)
Shipping weight	27.2 kg (60.0 lb)	35.0 kg (77.0 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)
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)
System network and remote monitoring	Available	Available
Warranty	Two-year standard	Two-year standard
Part number	865-2524	865-4024
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

Specifications are subject to change without notice.

Device short name	SW 2524 230	SW 4024 230
Electrical specifications - inverter		
Output power (continuous) at 25°C	2500 W	3500 W
Output power (30 min) at 25°C	2800 W	4000 W
Output power (5 sec) at 25°C	5000 W	7000 W
Peak current	24.3 A	42 A
Output frequency	50 / 60 Hz selectable	50 / 60 Hz selectable
Output voltage	230 Vac	230 Vac
Output wave form	True sine wave	True sine wave
Optimal efficiency	91.5%	92%
Idle consumption search mode	<8 W	<8 W
Input DC voltage range	20 - 34 Vdc	20 - 34 Vdc
AC connections	Single phase	Single phase
Electrical specifications - charger		
Output current	65 A	90 A
Nominal output voltage	24 Vdc	24 Vdc
Output voltage range	12 - 32 Vdc	12 - 32 Vdc
Charge control	3 stage	3 stage
Charge temperature compensation	Yes - BTS included	Yes - BTS included
Optimal efficiency	90%	90%
AC input power factor	> 0.98	> 0.98
Input current	10.6 A	14.0 A
Input AC voltage	230 Vac	230 Vac
Input AC voltage range line to neutral	170 - 270 Vac	170 - 270 Vac
Dead battery charge	Yes	Yes
General specifications		
Compatible battery types	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom
Transfer relay rating	30 A	30 A
Transfer time (AC to inverter and inverter to AC)	<1 cycle (20 ms)	<1 cycle (20 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)
Storage ambient temperature range	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Product weight	23.0 kg (50.6 lb)	30.5 kg (67.1 lb)
Shipping weight	27.2 kg (60.0 lb)	35.0 kg (77.0 lb)
Product dimensions (H x W x D)	38.7 x 34.3 x 19.7 cm (15.2 x 13.5 x 7.6 in)	38.7 x 34.3 x 19.7 cm (15.2 x 13.5 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)
System network and remote monitoring	Available	Available
Warranty	Two-year standard	Two-year standard
Part number	865-2524-61	865-4024-61
Regulatory approvals		
Safety	CE mark RCM mark IEC/EN62109-1 IEC/EN62109-2	CE mark RCM mark IEC/EN62109-1 IEC/EN62109-2

Conext SW accessories



Universal DC breaker panel (865-1016)

The DC breaker panel is pre-wired for quick installation with a single Conext SW and ensures a safe connection to the battery bank. It also accommodates up to two solar charge controllers and provides a mounting space for the system control panel (SCP). Two DC breaker panels can be combined for dual Conext SW applications.



AC breaker panel (120/240V) (865-1017)

The AC breaker panel is pre-wired for quick installation with a single Conext SW and ensures a safe connection to secondary AC distribution panels or directly to AC loads.



AC breaker panel (230V) (865-1017-61)

The AC breaker panel is pre-wired for quick installation with a single Conext SW and ensures a safe connection to secondary AC distribution panels or directly to AC loads.



System control panel (SCP) (865-1050)

The 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.



Automatic generator start (AGS) (865-1060)

The AGS module automatically controls activation of a generator to provide the Conext SW with power to recharge depleted batteries or assist with heavy loads. The AGS adds intelligent power management and eliminates time spent monitoring batteries and inverter loads.



Conext ComBox communication and monitoring device (865-1058)

Conext ComBox enables Conext inverters and system devices to be remotely configured and monitored. Data logs and event logs for each device, as well as graphical displays of historical and real-time solar system harvest and plant yield are easily reviewed over the internet using a Web browser or Android tablet device. ComBox is compatible with Xanbus protocol devices and offers full Modbus conversion.



MPPT 60 150 solar charge controller (865-1030-1)

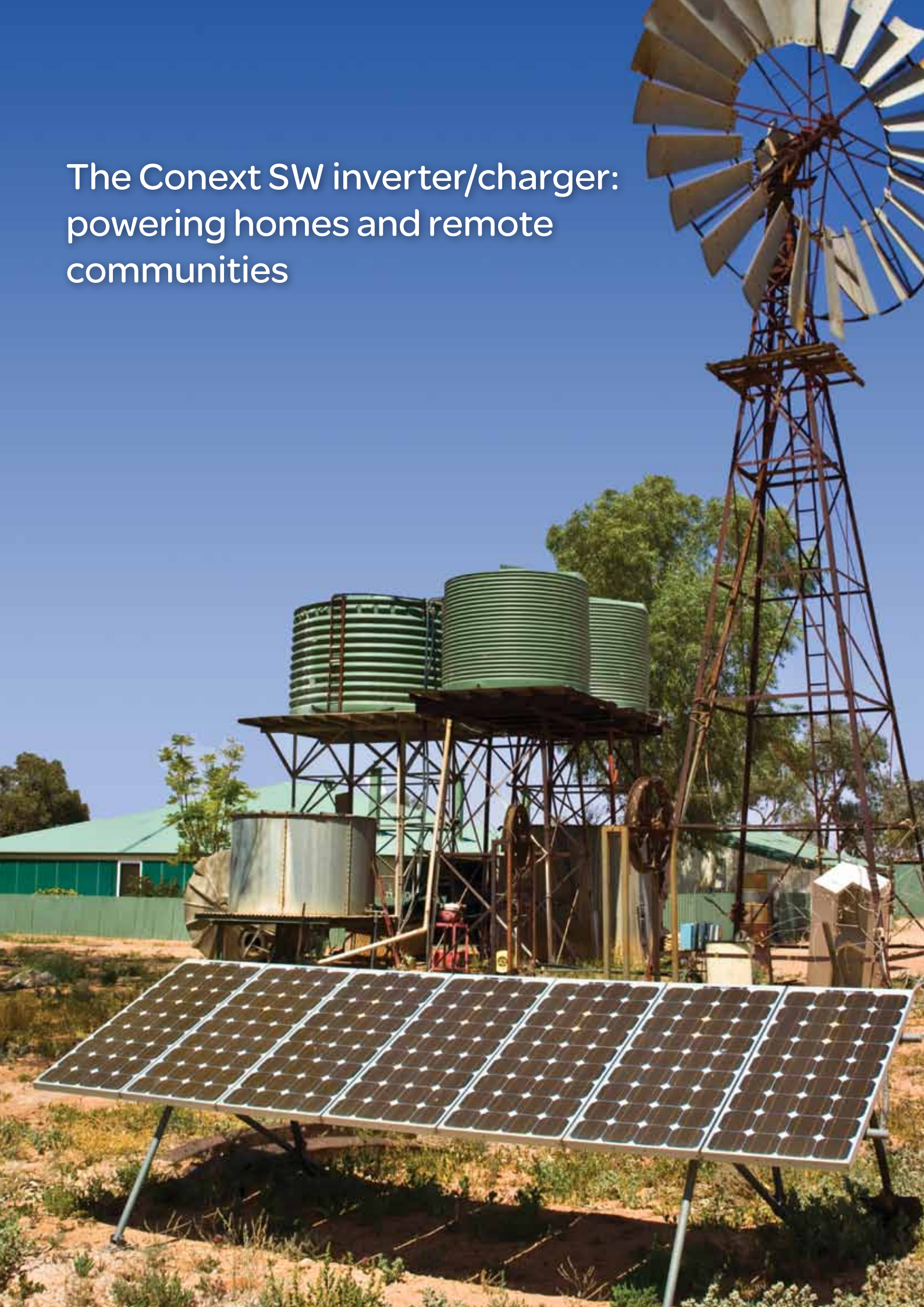
The MPPT 60 150 solar charge controller tracks the maximum power point of a PV array to deliver the maximum available DC current directly to the battery bank for charging. Deployable as stand-alone or in multiples, the MPPT 60 150 also integrates with the Conext SW inverter/charger.



MPPT 80 600 solar charge controller (865-1032)

The MPPT 80 600 solar charge controller offers an industry-first set of features and top performance that allows for large PV array systems to be easily installed and DC coupled to the battery bank at the lowest overall cost. Fast Sweep™ MPPT charging technology helps harvest the most energy available from the PV array, even in partial shade conditions. The 80 A of battery charge current allows for the connection of PV arrays rated up to 600 V. Deployable as stand-alone or in multiples, the MPPT 80 600 also fully integrates with the Conext XW inverter/charger as a system.

The Conext SW inverter/charger:
powering homes and remote
communities



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