

Grid-tie, off-grid solar and backup power solutions

For residential and commercial installations



Schneider
Electric

Smarter investment in photovoltaic solutions for all grid-tie, off-grid solar and backup installations



When it comes to grid-tie and off-grid and backup residential and commercial installations, Schneider Electric has both the experience and the proven technology to help make your investment a success.

Schneider Electric solutions for residential and commercial installations are specially designed by keeping your needs in mind. Our balance-of-system solutions include everything you need to efficiently distribute and manage locally generated solar energy, from the DC output to the AC grid connection.

Partnering with Schneider Electric gives you a higher return on investment and peace of mind

Broad portfolio for your grid-tie and off-grid installations	Best in class products	Global support presence in 100 + countries	Superior technical service
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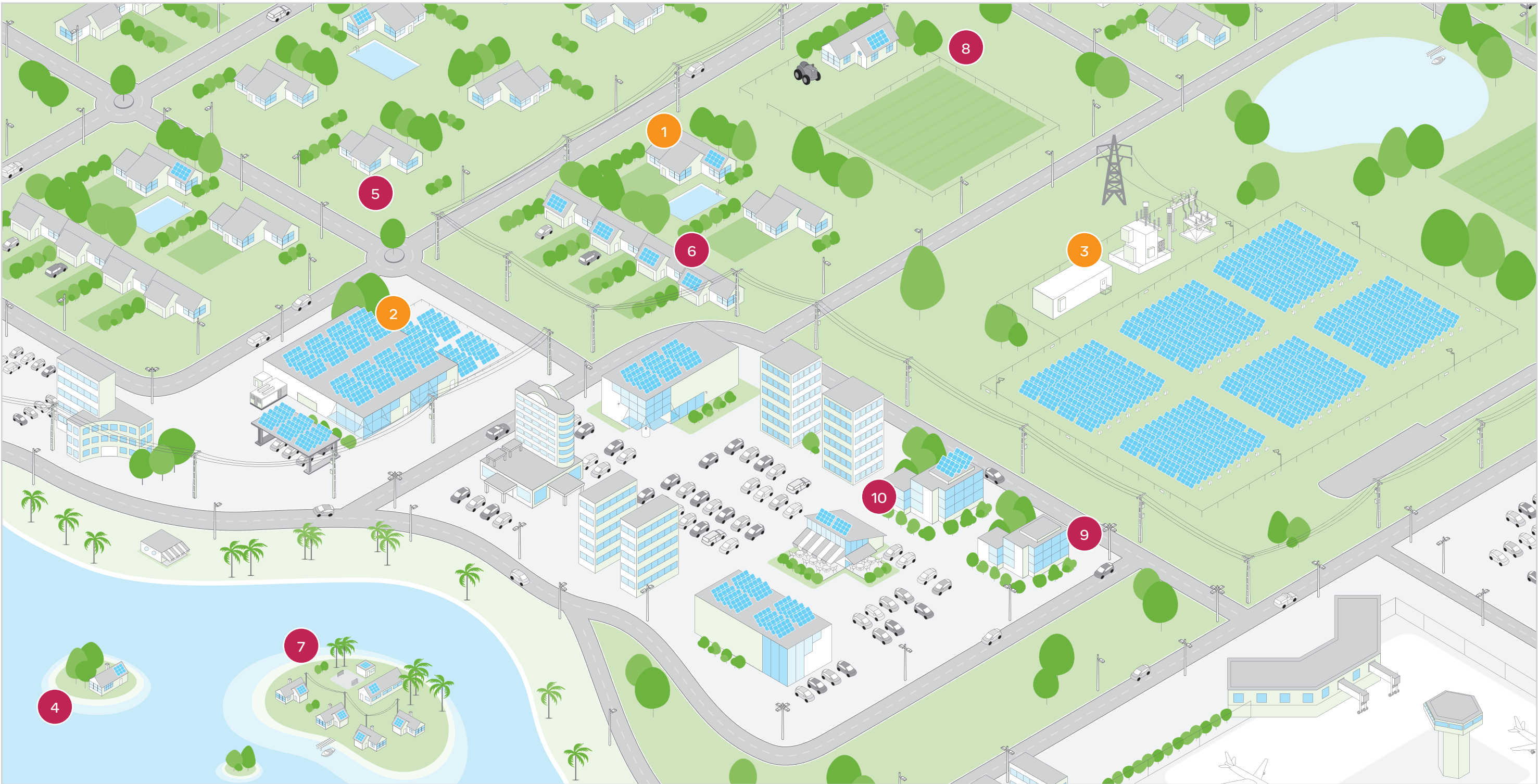
Schneider Electric is ranked among **Top 3 Most Competitive Inverter Companies** in the world according to GTM Research



Why choose **Schneider Electric's** solar products and solutions?

-  True bankability
-  Higher return on investment
-  Designed for reliability
-  Flexible
-  Easy to service
-  Easy to install

Solutions to cover all customer needs



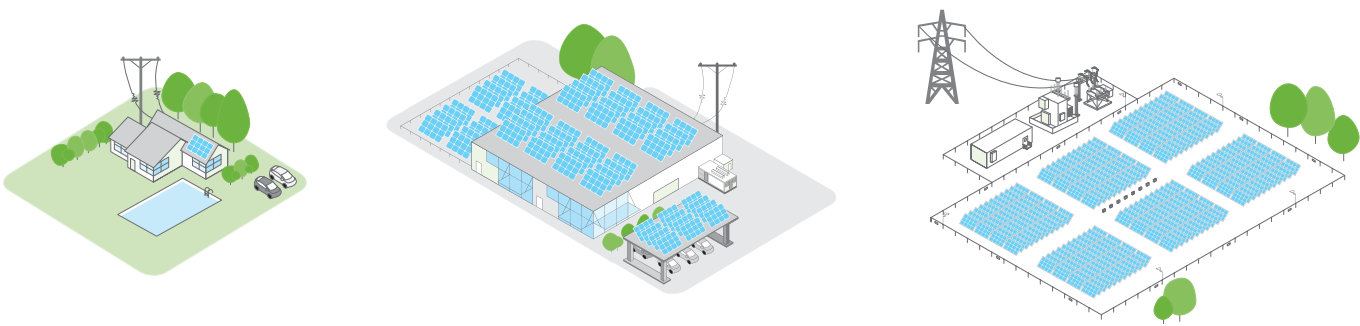
Grid-tie residential and commercial building solutions

- 1. Residential buildings
- 2. Commercial buildings and carports
- 3. Decentralised PV plants

Off-grid solar and backup power solutions

- 4. Residential off-grid solar
- 5. Residential backup power
- 6. Residential grid-interactive solar with battery backup
- 7. Remote community electrification
- 8. Commercial off-grid solar
- 9. Commercial backup power
- 10. Commercial grid-interactive solar with battery backup

Unique portfolio of grid-tie, off-grid solar and backup power products



- > Residential buildings
- > Commercial buildings and carports
- > Decentralised PV plants

1-phase grid-tie inverter



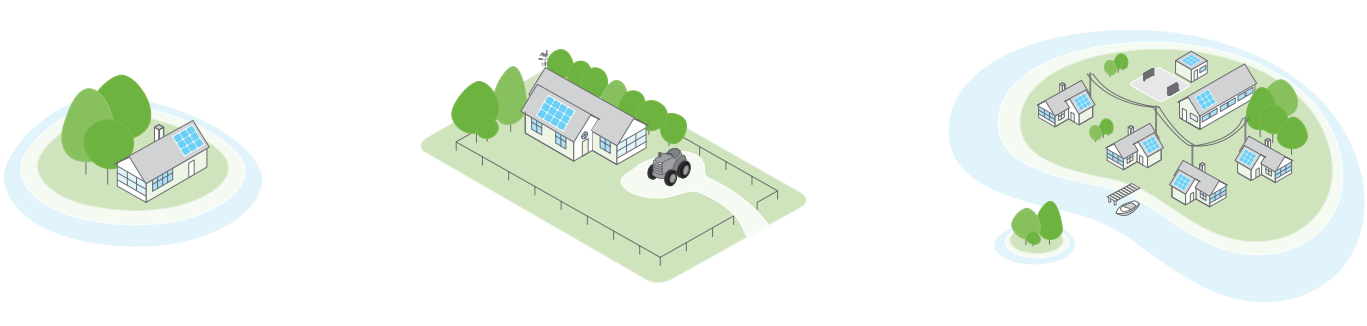
Conext RL
(3, 4, 5 kW)

Small 3-phase transformerless grid-tie inverters



Conext TL
(8, 10 kW)

Conext TL
(15, 20 kW)



- > Residential off-grid solar and backup power
- > Commercial off-grid solar and backup power
- > Remote community electrification

Inverters/chargers and charge controllers

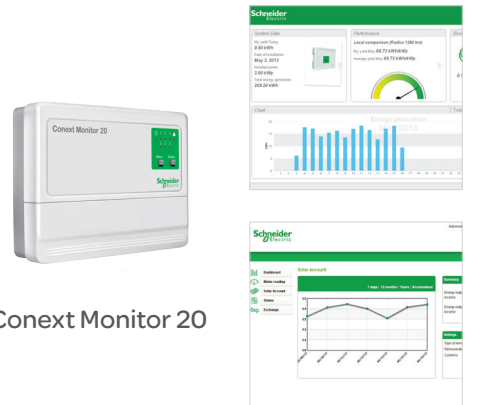


Conext SW
(2.5, 4 kW)

Conext XW
(4, 4.5, 6 kW)

MPPT 80 600 **MPPT 60 150** **C12/C60**

Monitoring



Conext Monitor 20

Accessories

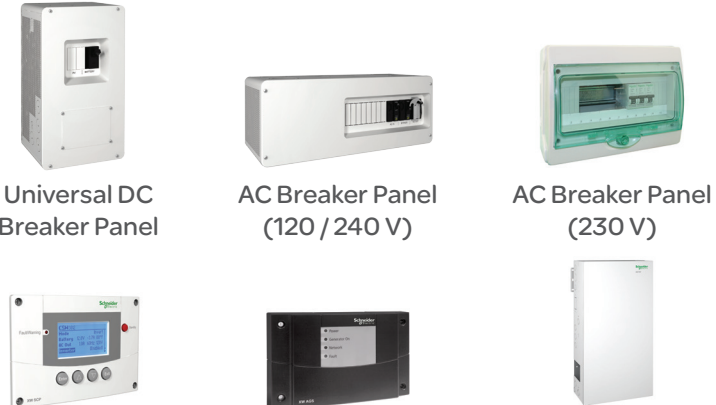


PV emergency box **DC box**

AC box **AC distribution box**

Circuit protectors and switches

Accessories



Universal DC Breaker Panel

AC Breaker Panel (120 / 240 V)

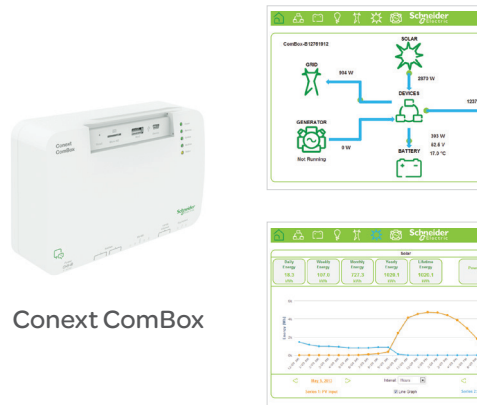
AC Breaker Panel (230 V)

System Control Panel (SCP)

Automatic Generator Start (AGS)

XW Power Distribution Panel (PDP)

Monitoring



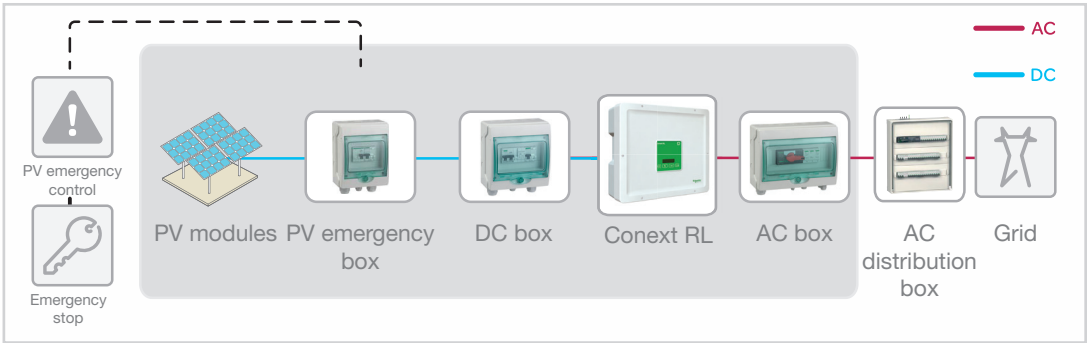
Conext ComBox



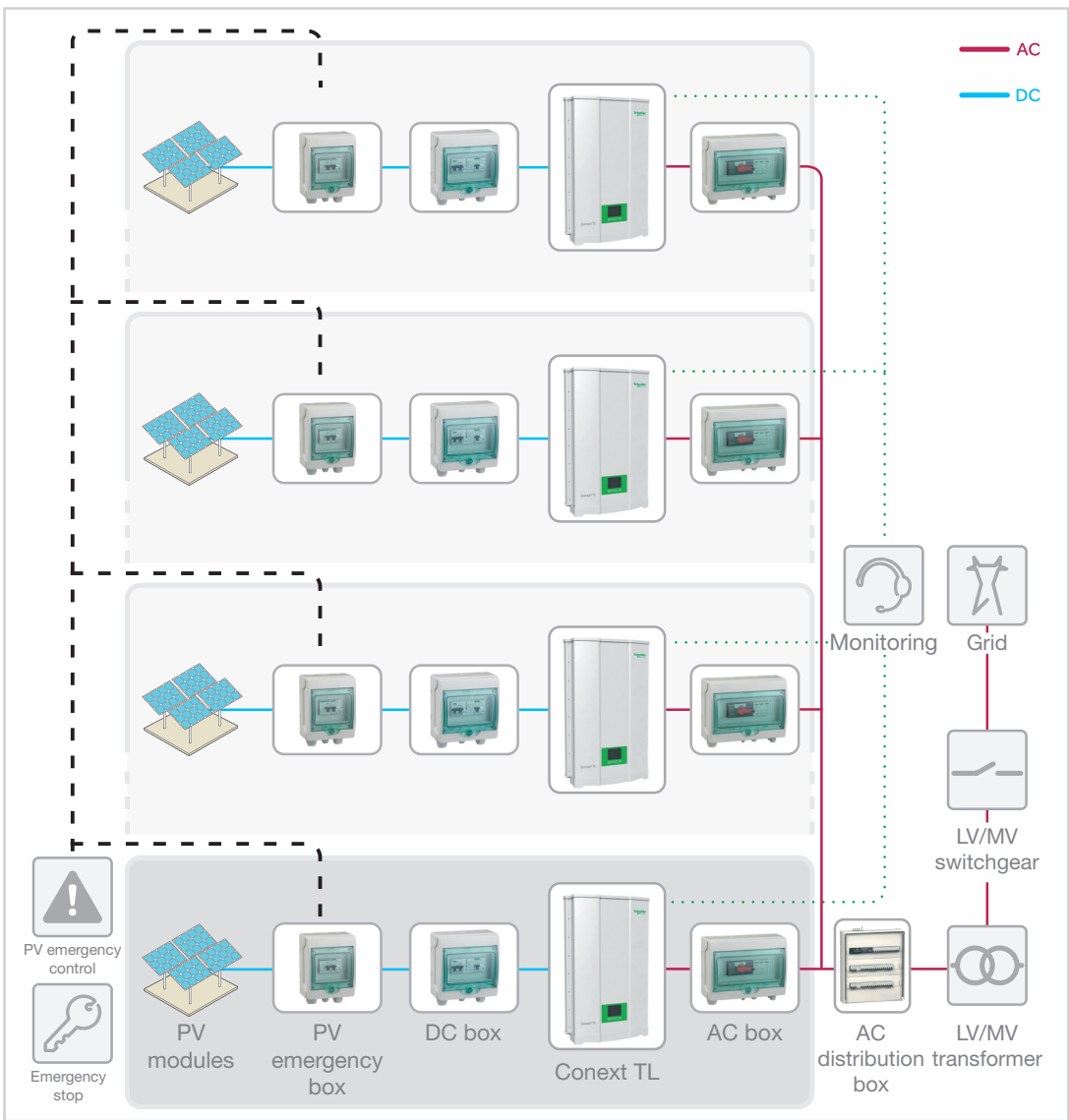
Designing your grid-tie residential and commercial solar solutions

Schneider Electric solutions for grid-tie residential and commercial building applications include everything you need from the DC output to the grid connection.

Residential solar solution using Conext RL



Commercial buildings and decentralised PV plants solutions using Conext TL



Using Conext TL inverters in a decentralised PV architecture, the PV array is broken up into smaller sub-arrays, each with its own small power string inverters.

Conext RL single-phase grid-tie inverter

Flexible and efficient residential solar solution

The Schneider Electric Conext™ RL inverters are specially designed to maximize yields for a wide range of rooftops of detached houses and multiple dwellings. The rich MPPT features, high energy efficiency, partial shading algorithm and a wide temperature and voltage operating range enables you to maximize your ROI. Backed by Schneider Electric's global service infrastructure and expertise in energy management, the Conext RL series are the inverters you can trust for quality and reliability.

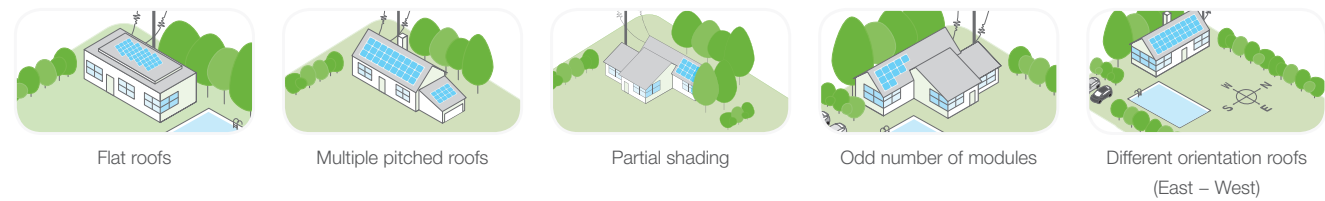
Why choose Conext RL?

- True bankability**
 - Warranty from a trusted partner with over 177 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**
 - Best in class conversion efficiency: 97.5% peak efficiency
 - Broad operating range to harvest more energy (early mornings and late afternoons)
 - Higher ROI with dual MPPT
 - Shade tolerant MPPT algorithm designed to minimize the effect of partial shading on the energy output
- Designed for reliability**
 - Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST) and Temperature Humidity Bias (THB)
 - IP65 compliant rugged, completely sealed unit to stand the harshest environmental conditions
- Flexible**
 - Dual MPPTs with wide MPPT voltage range (160-500V*) to support multiple roof orientations
 - Ability to support unbalanced arrays
 - Local as well as remote monitoring options available to track PV plant performance
- Easy to service**
 - No moving parts (e.g. fans) for low maintenance and increased uptime
 - Easily replaceable communication card
 - Integrated DC switch (optional)
- Easy to install**
 - Compact unit that allows easy and fast mounting with included bracket
 - Pluggable AC and DC connectors (MC4)
 - Auto country/multilingual configurations



Available in 3, 4 and 5 kW

Product applications



* Full power MPPT voltage range for RL 3000E: 160-500V; RL 4000E/5000E: 180-500V

Device short name	RL 3000 E	RL 4000 E	RL 5000 E*
Electrical specifications			
Input (DC)			
MPPT voltage range, full power	160 - 500 V	180 - 500 V	180 - 500 V
Operating voltage range	90 - 550 V	90 - 550 V	90 - 550 V
Starting voltage	100 V	100 V	100 V
Max. input voltage, open circuit	550 V	550 V	550 V
Number of MPPT	2	2	2
Max. input current per MPPT	10 A	12 A	18 A
Max. short circuit current per MPPT	13.9 A	16.7 A	25.0 A
Nominal input power for max. output	3.2 kW	4.2 kW	5.3 kW
Max. DC input power per MPPT	3.2 kW	3.2 kW	3.5 kW
DC connection type	MC4, 2 pairs (1+1)	MC4, 4 pairs (2+2)	MC4, 4 pairs (2+2)
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)
Output (AC)			
Nominal output power	3 kVA	4 kVA	5 kVA
Nominal output voltage	230 V, single-phase	230 V, single-phase	230 V, single-phase
Isolation	Transformerless	Transformerless	Transformerless
AC voltage range	184 V - 276 V	184 V - 276 V	184 V - 276 V
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Frequency range	50 / 60 Hz +/- 5 Hz	50 / 60 Hz +/- 5 Hz	50 / 60 Hz +/- 5 Hz
Max. output current	13.9 A	18.2 A	23.2 A
Total harmonic distortion	<3 %	<3 %	<3 %
Power factor (adjustable)	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag
AC connection type	IP67 connector	IP67 connector	IP67 connector
Efficiency			
Peak	97.5%	97.5%	97.5%
European	97.0%	97.0%	97.0%
General specifications			
Power consumption, night time	<1 W	<1 W	<1 W
IP degree of protection	IP65 (electronics and balance)	IP65 (electronics and balance)	IP65 (electronics and balance)
Climatic category (per IEC 60721-3-4)	4K4H	4K4H	4K4H
Cooling	Natural convection	Natural convection	Natural convection
Enclosure material	Aluminium	Aluminium	Aluminium
Product weight	20.0 kg (44.1 lb)	21.0 kg (46.3 lb)	24.0 kg (52.9 lb)
Shipping weight	25.0 kg (55.1 lb)	25.0 kg (55.1 lb)	30.0 kg (66.1 lb)
Product dimensions (H x W x D)	42.0 x 48.0 x 16.0 cm (16.5 x 18.9 x 6.3 in)	42.0 x 48.0 x 16.0 cm (16.5 x 18.9 x 6.3 in)	44.5 x 51.0 x 17.7 cm (17.5 x 20.1 x 7.0 in)
Shipping dimensions (H x W x D)	50.5 x 59.5 x 29.5 cm (19.9 x 23.4 x 11.6 in)	50.5 x 59.5 x 29.5 cm (19.9 x 23.4 x 11.6 in)	56.6 x 61.9 x 33.1 cm (22.3 x 24.4 x 13.0 in)
Ambient air temperature for operation	-20 to 65°C (-4°F to 149°F)**	-20 to 65°C (-4°F to 149°F)**	-20 to 65°C (-4°F to 149°F)**
Operating altitude	Up to 2000 m	Up to 2000 m	Up to 2000 m
Relative humidity	4 - 100% condensing	4 - 100% condensing	4 - 100% condensing
Noise emission (at 1 m distance)	<40 dbA	<40 dbA	<40 dbA
Features and options			
Embedded data logger	365 days		
Display	LCD 2 -line 16 digits, 2 Buttons		
Communication interface standard/optional	RS 485, MODBUS / Ethernet (with built-in web server)		
Multifunction relay	Yes		
Warranty in years standard/optional	5 / 10		
Regulatory approvals			
Electrical safety	CE marked for the Low Voltage Directive EN / IEC 62109-1 EN / IEC 62109-2, AS3100/AS5033		
Grid interconnection	VDE-AR-N 4105, RD1699, CEI 0-21, G59/2, G83/1, UTE C15-712-1, AS4777, VDE 0126, EN50438, IEC 62116, IEC 61727		
Environmental	RoHS, REACH		
EMC	CE marked for the EMC directive 2004-108-EC Emissions: EN 61000-6-3 (residential) Immunity: EN 61000-6-2 (industrial)		
Available product variants			
Standard	PVSNVC3000 (RL 3000 E)	PVSNVC4000 (RL 4000 E)	PVSNVC5000 (RL 5000 E)
With integrated DC switch	PVSNVC3000S (RL 3000 E-S)	PVSNVC4000S (RL 4000 E-S)	PVSNVC5000S (RL 5000 E-S)
Monitoring accessories			
Local monitoring	Ethernet card (PVSCMC1105)		
Remote monitoring	Conext Monitor 20 (PVSCMC1120)		

Specifications are subject to change without notice. *4.6 kW for Germany. **-20°C cold start temperature.

Conext TL three-phase grid-tie inverters

Ideal solution for commercial buildings, carports and decentralised power plants

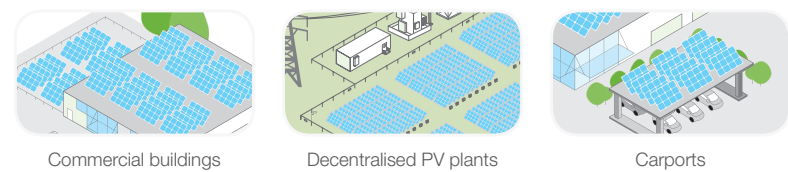
The new Conext™ TL 8, 10, 15 kW and TL 20 kW grid-tie solar inverters are suited for outdoor use and are the ideal solution for commercial buildings, carports and decentralised PV plants up to the MW range. The inverters provide dual MPPT (Maximum Power Point) trackers with a wide voltage range, peak efficiency of greater than 98% for fast ROI. The embedded Modbus communication card allows connectivity with a large range of Schneider Electric products, as well as the option to easily add third party monitoring solutions. Backed by Schneider Electric's global service infrastructure and its expertise in energy management, the Conext TL series are the inverters you can trust for quality and reliability.

Why choose Conext TL?

- True bankability**
 - Warranty from a trusted partner with over 177 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**
 - High conversion efficiency: >98% peak efficiency
 - Broad operating range to harvest more energy (early mornings and late afternoons)
 - Higher ROI with dual MPPT
 - Great value for money: DC switch, AC connectors and RS485 ports are included
- Designed for reliability**
 - Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST) and Temperature Humidity Bias (THB)
 - IP65 compliant rugged, completely sealed unit to stand the harshest environmental conditions
 - Design and qualified for applications in tropical environments through conformal coating and salt fog testing
- Flexible**
 - Wide MPPT voltage range (350 - 850 V)
 - Modular system designs using a combination of models
 - Easy to connect to third party monitoring solutions
- Easy to service**
 - Easily replaceable fan block and communications card
 - Integrated DC switch
 - Ability to remotely disable
- Easy to install**
 - Easy and fast mounting with included bracket
 - Pluggable AC and DC Connectors (MC4)
 - Auto country/multilingual configurations



Product applications



Device short name	TL 8000 E	TL10000 E	TL 15000 E	TL 20000 E
Electrical specifications				
Input (DC)				
MPPT voltage range, full power	350 - 850 V	350 - 850 V	350 - 800 V	350 - 800 V
Operating voltage range	200 - 1000 V	200 - 1000 V	200 - 1000 V	200 - 1000 V
Starting voltage	200 V	200 V	200 V	200 V
Max. input voltage, open circuit	1000 V	1000 V	1000 V	1000 V
Number of MPPT	2	2	2	2
Max. input current per MPPT	17 A	17 A	23 A	30 A
Max. short circuit current per MPPT	24 A	24 A	30 A	30 A
Nominal input power for max. output	8.3 kW	10.4 kW	17.0 kW	22.0 kW
Max. DC input power per MPPT	5.5 kW	7.0 kW	8.5 kW	11.0 kW
DC connection type	MC4, 4 pairs (2+2)	MC4, 4 pairs (2+2)	MC4, 4 pairs (2+2)	MC4, 4 pairs (2+2)
DC switch	Integrated	Integrated	Integrated	Integrated
Output (AC)				
Nominal output power	8 kVA	10 kVA	15 kVA	20 kVA
Nominal output voltage	230 / 400 V, three-phase	230 / 400 V, three-phase	230 / 400 V, three-phase	230 / 400 V, three-phase
Isolation	Transformerless	Transformerless	Transformerless	Transformerless
AC voltage range	184 - 276 V	184 - 276 V	184 - 276 V	184 - 276 V
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Frequency range	50 / 60 +/- 3 Hz	50 / 60 +/- 3 Hz	50 / 60 +/- 3 Hz	50 / 60 +/- 3 Hz
Max. output current	12.8 A	16.0 A	24.0 A	32.0 A
Total harmonic distortion	< 3 %	< 3 %	< 3 %	< 3 %
Power factor (adjustable)	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag	0.8 lead to 0.8 lag
AC connection type	IP67 connector	IP67 connector	IP67 connector	IP67 connector
Efficiency				
Peak	98.2 %	98.3 %	98.0%	98.0 %
European	97.4 %	97.7 %	97.3 %	97.5 %
General specifications				
Power consumption, night time	< 2 W	< 2 W	< 2 W	< 2 W
IP degree of protection	IP65 (electronics), IP55 (balance)	IP65 (electronics), IP55 (balance)	IP65 (electronics), IP55 (balance)	IP65 (electronics), IP55 (balance)
Cooling	Fan cooled	Fan cooled	Fan cooled	Fan cooled
Enclosure material	Aluminium	Aluminium	Aluminium	Aluminium
Product weight	41.0 kg (90.2 lb)	41.0 kg (90.2 lb)	67.2 kg (148.2 lb)	67.2 kg (148.2 lb)
Shipping weight	48.5 kg (106.9 lb)	48.5 kg (106.9 lb)	122.0 kg (269.0 lb)	122.0 kg (269.0 lb)
Product dimensions (H x W x D)	62.5 x 61.2 x 27.8 cm (24.6 x 24.0 x 10.9 in)	62.5 x 61.2 x 27.8 cm (24.6 x 24.0 x 10.9 in)	96.0 x 61.2 x 27.8 cm (37.8 x 24.1 x 10.9 in)	96.0 x 61.2 x 27.8 cm (37.8 x 24.1 x 10.9 in)
Shipping dimensions (H x W x D)	75.0 x 74.0 x 40.0 cm (29.5 x 29.1 x 15.8 in)	75.0 x 74.0 x 40.0 cm (29.5 x 29.1 x 15.8 in)	115.0 x 79.0 x 48.0 cm (45.3 x 31.1 x 18.9 in)	115.0 x 79.0 x 48.0 cm (45.3 x 31.1 x 18.9 in)
Ambient air temperature for operation	-20 to 60°C (-4°F to 140°F)	-20 to 60°C (-4°F to 140°F)	-20 to 60°C (-4°F to 140°F)**	-20 to 60°C (-4°F to 140°F)**
Operating altitude	Up to 2000 m	Up to 2000 m	Up to 2000 m	Up to 2000 m
Relative humidity	4 - 100 % (condensing)	4 - 100 % (condensing)	4 - 100 % (condensing)	4 - 100 % (condensing)
Noise emission (at 1 m distance)	< 50 dBA	< 50 dBA	< 55 dBA	< 55 dBA
Features and options				
Embedded data logger	365 days			
Display	5" Graphic LCD (320 x 240 pixels), 4 buttons			
Communication interface	Modbus (RS485)			
Multifunction relay	Yes			
Warranty in years (standard/optional)	5 / 10			
Regulatory approval				
Electrical safety	CE marked for the Low Voltage Directive EN / IEC 62109-1 / EN / IEC 62109-2 AS3100 (Australia / Israel***)			
Grid interconnection*	BDEW***, VDE0126-1-1, VDE-AR-N 4105, RD1663, RD661, RD1699, ENEL-Guida***, CEI 0-21, A70, G59/2***, UTE C15-712-1, AS4777/SI4777***, PO12.3***, IEC 62116***, IEC 61727***			
Environmental	RoHS, REACH			
EMC	CE marked for the EMC directive 2004-108-EC Emissions: EN 61000-6-3 (residential) Immunity: EN 61000-6-2 (industrial)			
Available product variants				
Standard	PVSNVC8000	PVSNVC10000	PVSNVC15000	PVSNVC20000

Specifications are subject to change without notice. *More available upon request. ** -15°C cold start temperature. V_{pv} ≥500V. ***Only for TL 15000 E and TL 20000 E.

Conext Monitor 20 communication device

Compact and easy to use remote monitoring solution for residential PV installations

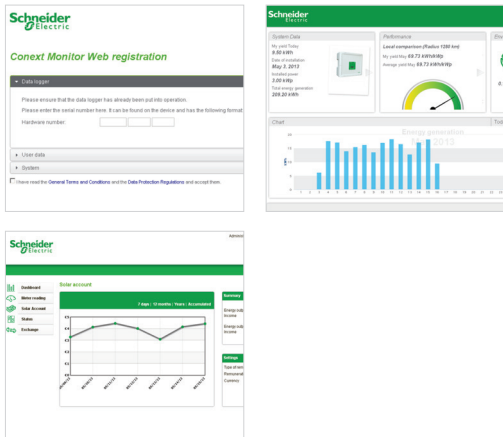
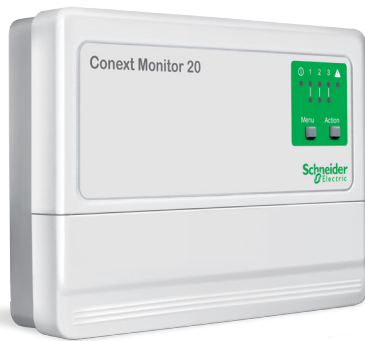
Conext™ Monitor 20 is a compact monitoring and control unit. This data logger allows simple configuration and operation. Connecting the data logger to the internet via ethernet allows the operating data to be visualized and monitored regardless of location using the web portal. The key data displayed in the web portal includes current and historical energy generation, environmental impact and system set-up data.

With four digital inputs and a power control function, it also meets the grid feed-in management requirements by allowing the connection of a ripple control receiver to the inverter through the datalogger.

Conext Monitor 20 is suitable for Conext RL and Conext TL series of inverters for PV systems up to 20 kW (not more than three inverters).

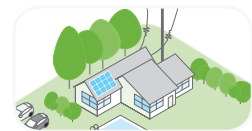
Why choose Conext Monitor 20?

- **True bankability**
 - Warranty from a trusted partner with over 177 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**
 - Energy generation charts and regional benchmarking to proactively address PV plant performance issues, if any
 - Meets current grid feed-in management guidelines to avoid any blanket reduction e.g. in Germany
- **Designed for reliability**
 - Undergone extensive safety, quality and reliability testing
- **Flexible**
 - Compatible with Conext RL and TL series of inverters
 - Access to PV plant performance regardless of location
 - Both visual and audible alarm available for quick error reporting
- **Easy to service**
 - Provision to backup and to load data logger configuration
 - Easy replacement of data logger without losing any portal data
- **Easy to install**
 - Compact unit that is very easy to mount
 - Configuration software included for installation assistance
 - Simple registration process for web portal

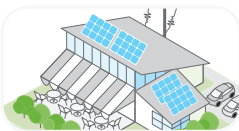


Conext Monitor 20 monitoring system

Product applications



Residential



Small commercial

Device short name	Conext Monitor 20
Electrical specifications	
Communication interfaces	
Inverter (Modbus-RS 485)	Connector: 1x RJ12, 2-wire serial, termination: 120 Ohms Inverter connect cable (length: 2m) and RJ45 - RJ45 adapter for extension provided Products supported: Conext RL, Conext TL (max. plant size 20 kW, max. number of inverters: 3)
Ethernet	Connector: 1 x RJ45, 10 Mbps (HTTP(s), DHCP, REST) Ethernet connect cable provided (length: 1.8 m)
USB-device	Connector: USB-MicroB, full speed 12 Mbps, protocols: CDC, RS232 emulation USB connect cable provided (length: 1m)
Other interfaces	
Ripple control receiver	Connector: 1x RJ45, 4x digital inputs (EN62053-31)
Power supply options	
DC input	24 V +/- 5% , using 2.1 x 5.5 mm center positive socket
AC frequency of power adapter	47 to 63 Hz
AC voltage of power adapter	100 to 240 VAC
Power consumption	1.7 W typical
Memory	
Internal flash	5 days data
General specifications	
Product weight	0.2 kg (0.4 lb)
Shipping weight	0.7 kg (1.5 lb)
Product dimensions (H x W x D)	10.7 x 15.2 x 3.7 cm (4.2 x 6.0 x 1.5 in)
Shipping dimensions (H x W x D)	16.0 x 33.2 x 12.2 cm (6.3 x 13.1 x 4.8 in)
Housing/mounting system	Wall-mount: 2-screw
IP rating/mounting location	IP 21, indoor only
Status display	8x LEDs
Push buttons	3x (menu, action and reset)
Switch	1x (for power control on/off)
Audible alarm	Yes (with on/off control)
Temperature	Operating: 0 to 40°C; storage: -20 to 650°C
Humidity	Rel. 20 to 90% (non-condensing)
Part number	PVSCMC1120
Features and options	
Warranty	2 years
Portal compatibility with browsers	IE8 and above, Firefox 13.0.1 and above, Google Chrome 20.0.1132.47m and above, Apple Safari 5.1.7 and above
Regulatory approvals	
Marking	CE, RCM
Safety	EN 60950-1
EMC immunity	EN 61000-3-2, EN 61000-3-3, EN61000-6-1:2007, EN61000-4-11
EMC emission	EN55022 class B
Substances/environmental	RoHS
Disposal	WEEE
Works with	
Conext TL	TL 8000 E product no. PVSNVC8000, TL 1000 E product no. PVSNVC10000, TL 15000 E product no. PVSNVC15000, TL 20000 E product no. PVSNVC20000
Conext RL	RL 3000 E product no. PVSNVC3000 / PVSNVC3000S, RL 4000 E product no. PVSNVC4000 / PVSNVC4000S, RL 5000 E product no. PVSNVC5000 / PVSNVC5000S

Specifications are subject to change without notice.

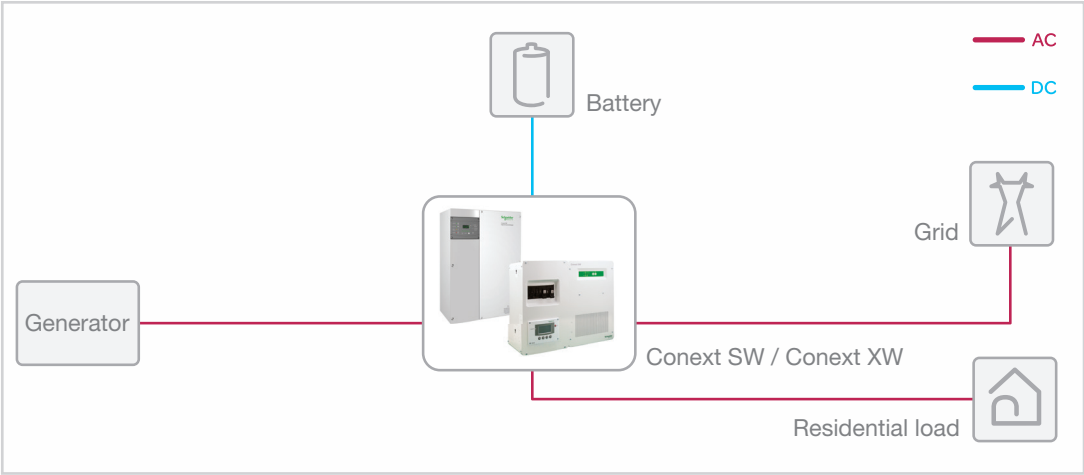


Refuge du Gouter, France
Off-grid solar
12 kWp

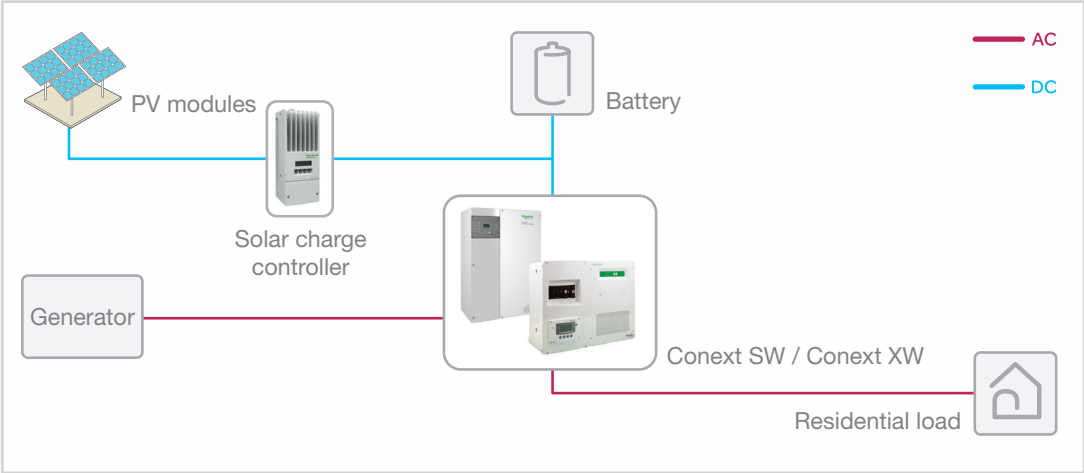
Designing your off-grid solar and backup power solutions

Schneider Electric solutions for the off-grid solar and battery back market allow you to install your system for multiple configurations to suit your project requirements.

Residential backup power solutions using Conext SW or Conext XW



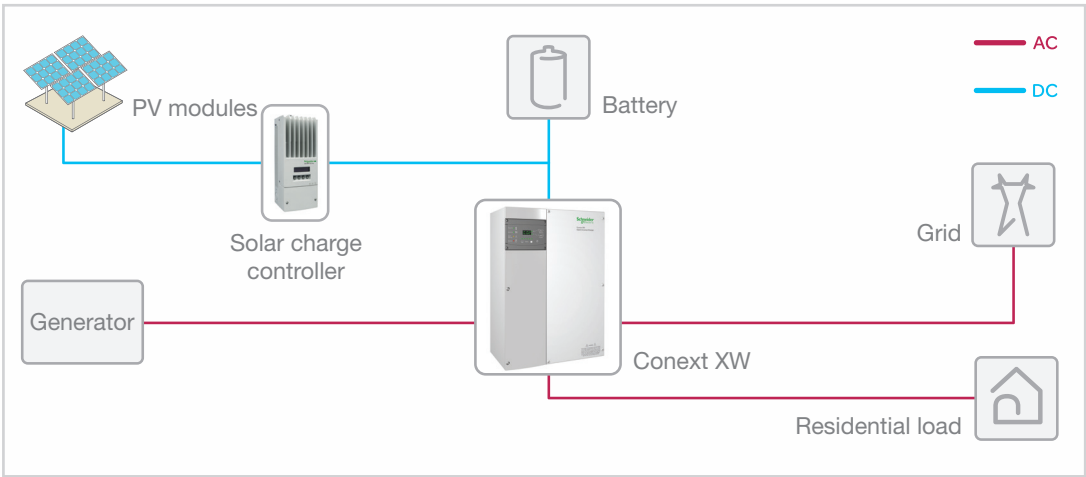
Residential off-grid solutions using Conext SW or Conext XW



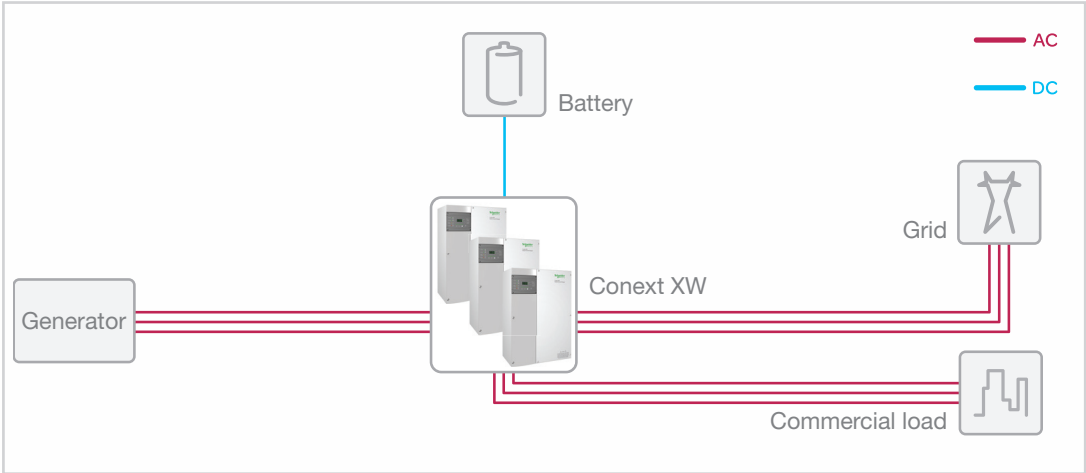
Ontario, Canada
Off-grid solar
10 kWp

Designing your solar solution

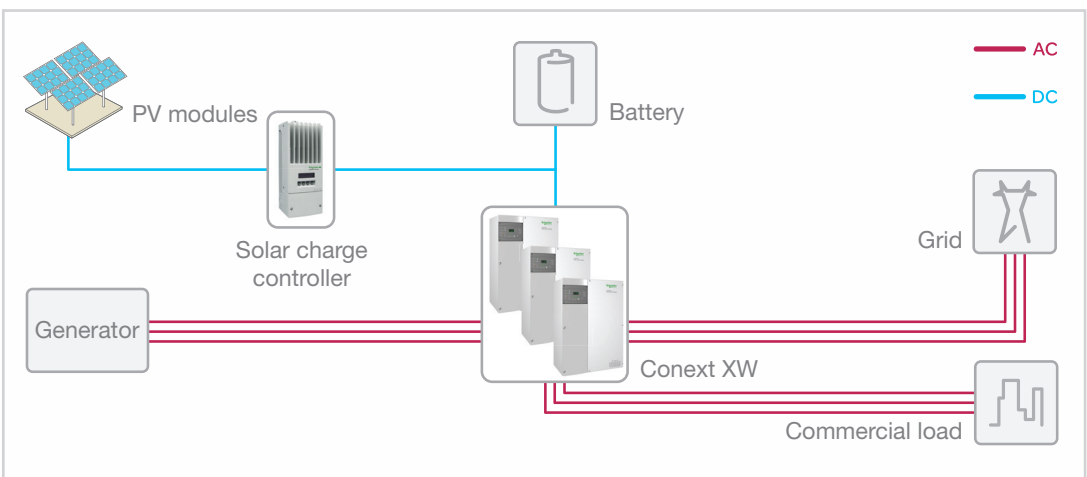
Residential grid-interactive solar with backup solutions using Conext XW



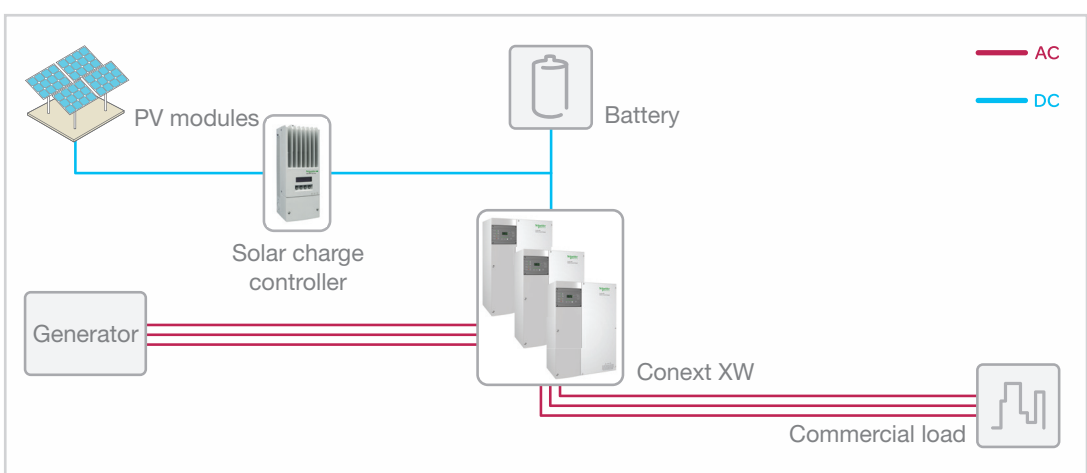
Commercial backup power solutions using Conext XW



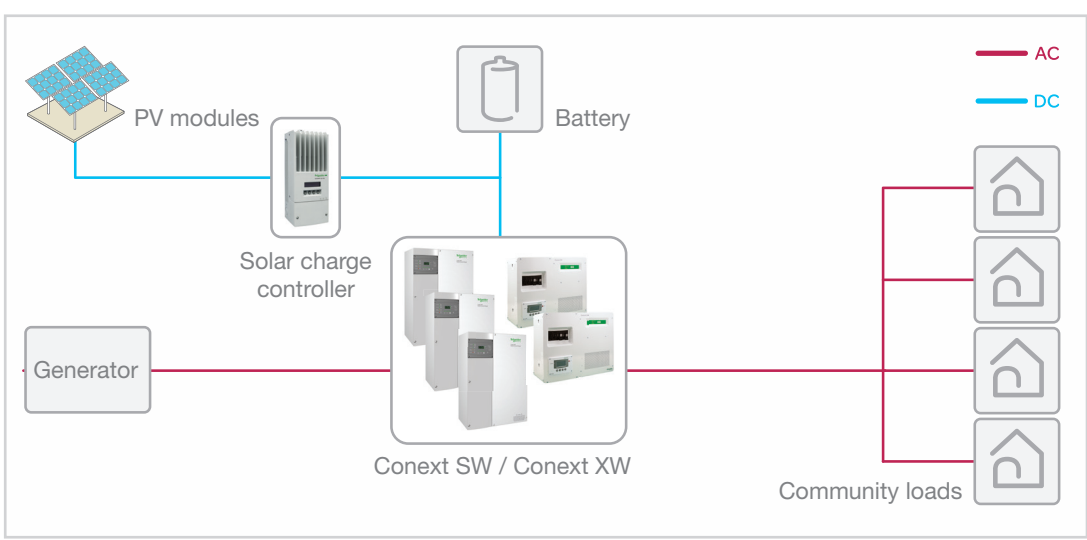
Commercial grid-interactive solar with battery backup solutions using Conext XW



Commercial off-grid solar solutions using Conext XW



Community electrification using Conext SW or Conext XW



Conext SW inverter/charger

New value in off-grid solar and backup power

Conext™ SW delivers new value and a new price point to the marketplace in 2013. Conext SW is a pure sine wave, inverter/charger system with switchable 50/60 Hz functionality available for both 120/240 VAC or 230 VAC models.

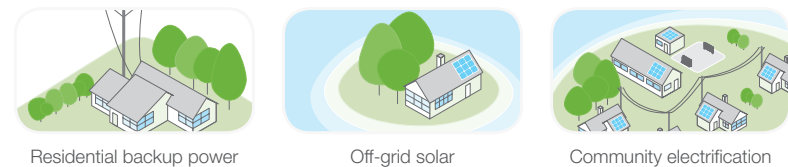
North American units feature split-phase input and output without the need for an external transformer. Available DC and AC switchgear panels, display control panel, remote monitoring and automated generator control modules present even more value. Stacking Conext SW units will double the power and available solar charge controllers allow for the integration of solar capacity as required.

Why choose Conext SW?

- **True bankability**
 - Warranty from a trusted partner with over 177 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
- **Designed for reliability**
 - Robust design through rigorous reliability testing (HALT)
- **Flexible**
 - All models support both 50 Hz and 60 Hz output
 - Support stackable power up to 8 kW
- **Easy to service**
 - Remote monitoring and configuration
 - Global support
- **Easy to install**
 - Configures quickly into compact wall mounted system
 - Companion breaker panels integrate inverter with battery bank and solar charge controllers



Product applications



Device short name	SW 2524 120	SW 4024 120	SW 2524 230	SW 4024 230
Electrical specifications - inverter				
Output power (continuous) at 25°C	2500 W	3400 W	2500 W	3500 W
Output power (30 min) at 25°C	2700 W	4000 W	2800 W	4000 W
Output power (5 sec) at 25°C	4000 W	7000 W	5000 W	7000 W
Peak current	24.3 A	41 A	24.3 A	42 A
Output frequency	50 / 60 Hz selectable	50 / 60 Hz selectable	50 / 60 Hz selectable	50 / 60 Hz selectable
Output voltage	120 / 240 Vac	120 / 240 Vac	230 Vac	230 Vac
Output wave form	True sine wave	True sine wave	True sine wave	True sine wave
Optimal efficiency	91.5%	92%	91.5%	92%
Idle consumption search mode	<8 W	<8 W	<8 W	<8 W
Input DC voltage range	20 - 34 Vdc	20 - 34 Vdc	20 - 34 Vdc	20 - 34 Vdc
AC connections	Single / Split phase	Single / Split phase	Single phase	Single phase
Electrical specifications - charger				
Output current	65 A	90 A	65 A	90 A
Nominal output voltage	24 Vdc	24 Vdc	24 Vdc	24 Vdc
Output voltage range	12- 32 Vdc	12 - 32 Vdc	12 - 32 Vdc	12 - 32 Vdc
Charge control	3 stage	3 stage	3 stage	3 stage
Charge temperature compensation	Yes - BTS included	Yes - BTS included	Yes - BTS included	Yes - BTS included
Optimal efficiency	90%	90%	90%	90%
AC input power factor	> 0.98	> 0.98	> 0.98	> 0.98
Input current	9 A	13 A	10.6 A	14.0 A
Input AC voltage	120 / 240 Vac split phase	120 / 240 Vac split phase	230 Vac	230 Vac
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	170 - 270 Vac	170 - 270 Vac
Dead battery charge	Yes	Yes	Yes	Yes
General specifications				
Compatible battery types	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom	FLA, Gel, AGM, Custom
Transfer relay rating	30 A	30 A	30 A	30 A
Transfer time	<1 cycle (16.7 ms)	<1 cycle (16.7 ms)	<1 cycle (20 ms)	<1 cycle (20 ms)
(AC to inverter and inverter to AC)				
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)	-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)	-40°C to 85°C (-40°F to 185°F)
Product weight	23.0 kg (50.6 lb)	30.5 kg (67.1 lb)	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)	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)	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)	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	Available
Warranty (Depending on the country of installation)	2 or 5 years	2 or 5 years	2 or 5 years	2 or 5 years
Part number	865-2524	865-4024	865-2524-61	865-4024-61
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	CE mark RCM mark IEC/EN62109-1, IEC/EN62109-2	CE mark RCM mark IEC/EN62109-1, IEC/EN62109-2
Optional accessories				
Universal DC breaker panel	865-1016			
AC breaker panel (120/240 V)	865-1017			
AC breaker panel (230 V)	865-1017-61			
System Control Panel (SCP)	865-1050			
Automatic Generator Start (AGS)	865-1060			
Conext ComBox	865-1058			
MPPT 60 150 solar charge controller	865-1030-1			

Specifications are subject to change without notice.

Conext XW inverter/charger

(230 V / 50 Hz)

One solution for global power

Conext™ XW is an adaptable pure sine wave, single-phase and three-phase inverter/charger system with global grid-tie functionality and dual AC power inputs. Available solar charge controllers, monitoring, and automated generator control modules enable further adaptability. From single Conext XW unit to multiple clusters of units, up to 36 kW each, the Conext XW is a scalable system that allows for the integration of solar capacity as required.

Adaptable and scalable, the Schneider Electric Conext XW system is the one solution for global grid-interactive and off-grid, residential and commercial, solar and backup power applications.

Why choose Conext XW (230 V / 50 Hz)?

- **True bankability**
 - Warranty from a trusted partner with over 177 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**
 - Harness the continuously declining production cost of solar power
 - Hybrid integration of generator reduces diesel fuel costs
- **Designed for reliability**
 - Robust design through rigorous reliability testing (HALT)
 - Proven field performance: 7 years with high reliability, globally in multiple applications and environments
- **Flexible**
 - Adapts to single and three-phase systems
 - Scales to 36 kW for commercial or large electrification installations
 - Supports DC coupled and AC coupled solutions
- **Easy to service**
 - Remote monitoring and configuration
 - Replaceable boards and components
 - Global support
- **Easy to install**
 - Devices configure quickly into a stylish wall mounted system
 - Inverters connect both grid and generator power with dual AC input



Product applications



Device short name	XW4024 230 50	XW4548 230 50	XW6048 230 50
Electrical specifications			
Continuous power	4.0 kVA	4.5 kVA	6.0 kVA
Surge rating	8.0 kVA (20 sec)	9.0 kVA (15 sec)	12.0 kVA (15 sec)
Output current	17.4 A	19.6 A	26.1 A
Peak output current (rms)	35 A	40 A	53 A
Input current at rated power	178 A	96 A	131 A
Type of signal	True sine wave	True sine wave	True sine wave
Automatic transfer relay	56 A	56 A	56 A
Typical transfer time	8 ms	8 ms	8 ms
DC input voltage (nominal)	25.2 V	50.4 V	50.4 V
Input voltage limits	20 to 32 V	40 to 64 V	40 to 64 V
Charging current	150 A	85 A	100 A
Power factor corrected charging	0.98	0.98	0.98
Auxiliary relay output	0 to 12 V, maximum 250 mA DC	0 to 12 V, maximum 250 mA DC	0 to 12 V, maximum 250 mA DC
Power consumption (search mode)	< 7 W	< 7 W	< 7 W
AC input voltage (nominal)	230 V +/- 3%	230 V +/- 3%	230 V +/- 3%
Input voltage limits (bypass/charge mode)	165 to 280 V (230 V nominal)	165 to 280 V (230 V nominal)	165 to 280 V (230 V nominal)
Frequency	50 Hz +/- 0.1 Hz	50 Hz +/- 0.1 Hz	50 Hz +/- 0.1 Hz
AC input frequency range (bypass/charge mode)	40 to 68 Hz (50 Hz nominal)	40 to 68 Hz (50 Hz nominal)	40 to 68 Hz (50 Hz nominal)
Total harmonic distortion (THD)	< 5% at rated power	< 5% at rated power	< 5% at rated power
AC connections	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)
AC input breaker	60 A single-pole	60 A single-pole	60 A single-pole
Efficiency			
Peak	94.0%	95.6%	95.4%
General specifications			
IP degree of protection	IP20 (sensitive electric components sealed inside enclosure)		
Product weight	52.5 kg (116.0 lb)	53.5 kg (118.0 lb)	55.2 kg (121.7 lb)
Shipping weight	74.0 kg (163.0 lb)	75.0 kg (165.0 lb)	76.7 kg (169.0 lb)
Product dimensions (H x W x D)	58 x 41 x 23 cm (23 x 16 x 9 in)	58 x 41 x 23 cm (23 x 16 x 9 in)	58 x 41 x 23 cm (23 x 16 x 9 in)
Shipping dimensions (H x W x D)	71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in)	71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in)	71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in)
Device mounting	Wall mount (backplate included)	Wall mount (backplate included)	Wall mount (backplate included)
Ambient air temperature for operation	-25°C to 70°C (-13°F to 158°F) (power derated above 45°C (113°F))		
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	865-1045-61	865-1040-61	865-1035-61
Features and options			
Display type	Status LEDs indicate AC In status, faults/warnings, equalize mode, On/Off and equalize button battery level. Three-character display indicates output power or charge current		
Supported battery types	Flooded (default), Gel, AGM, custom	Flooded (default), Gel, AGM, custom	Flooded (default), Gel, AGM, custom
Battery bank size	100 to 2000 Ah (scaled to PV array size)		
Battery temperature sensor	Included	Included	
Non volatile memory	Yes	Yes	
Multiple unit configurations	Single-phase: up to four parallel units. Three-phase: two units per phase		
Regulatory approval			
CE marked according to the following EU directives and standards:			
EMC directive	EN61000-6-1, EN61000-6-3, EN61000-3-2, EN61000-3-3		
Low voltage directive	EN50178		
RCM marked and compliant	AS 4777.2, AS 4777.3, AS/NZS 3100		
Accessories			
XW Product Distribution Panel (PDP)	Product no. 865-1015		
XW Connection Kit (CK)	Product no. 865-1020		
System Control Panel (SCP)	Product no. 865-1050		
Automatic Generator Start (AGS)	Product no. 865-1060		
MPPT 60 150 solar charge controller	Product no. 865-1030-1		
MPPT 80 600 solar charge controller	Product no. 865-1032		
XW Configuration Tool (CT)	Product no. 865-1155		
Conext ComBox	Product no. 865-1058		

Specifications are subject to change without notice.

Conext XW inverter/charger

(120 / 240 V / 60 Hz)

One solution for global power

Conext™ XW is an adaptable pure sine wave, single-phase, split-phase or three-phase inverter/charger system with global grid-tie functionality and dual AC power inputs. Available solar charge controllers, monitoring, and automated generator control modules enable further adaptability. From single Conext XW unit to multiple clusters of units, up to 36 kW each, the Conext XW is a scalable system that allows for the integration of solar capacity as required.

Adaptable and scalable, the Schneider Electric Conext XW system is the one solution for global grid-interactive and off-grid, residential and commercial, solar and backup power applications.

Why choose Conext XW (120 V / 240 v / 60 Hz)?

- **True bankability**
 - Warranty from a trusted partner with over 177 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**
 - Harness the continuously declining production cost of solar power
 - Hybrid integration of generator reduces diesel fuel costs
- **Designed for reliability**
 - Robust design through rigorous reliability testing (HALT)
 - Proven field performance: 7 years with high reliability, globally in multiple applications and environments
- **Flexible**
 - Adapts to single, split-phase or three-phase systems
 - Scales to 36 kW for commercial or large electrification installations
 - Supports DC coupled and AC coupled solutions
- **Easy to service**
 - Remote monitoring and configuration
 - Replaceable boards and components
 - Global support
- **Easy to install**
 - Devices configure quickly into a stylish wall mounted system
 - Inverters connect both grid and generator power with dual AC input
 - Power distribution panel integrates inverters with battery bank and solar charge controllers



Products shown:
Schneider Electric Conext XW inverter/charger,
XW Power Distribution Panel and XW Conduit Box

Product applications



Device short name	XW4024 120 240 60	XW4548 120 240 60	XW6048 120 240 60
Electrical specifications			
Continuous power	4.0 kVA	4.5 kVA	6.0 kVA
Surge rating	8.0 kVA (20 sec)	9.0 kVA (15 sec)	12.0 kVA (15 sec)
Peak output current (rms)	L-N: 70 A (20 sec), L-L: 35 A (20 sec)	L-N: 75 A (20 sec), L-L: 40 A (20 sec)	L-N: 105 A (15 sec), L-L: 52.5 A (15 sec)
Input current at rated power	178 A	96 A	130 A
Type of signal	True sine wave	True sine wave	True sine wave
Automatic transfer relay	60 A	60 A	60 A
Typical transfer time	8 ms	8 ms	8 ms
DC input voltage (nominal)	25.2 V	50.4 V	50.4 V
Input voltage limits	20 to 32 V	40 to 64 V	40 to 64 V
Charging current	150 A	85 A	100 A
Power factor corrected charging	0.98	0.98	0.98
Auxiliary relay output	0 to 12 V, maximum 250 mA DC	0 to 12 V, maximum 250 mA DC	0 to 12 V, maximum 250 mA DC
Idle consumption (search mode)	< 8 W	< 8 W	< 8 W
AC input voltage (nominal)	120 / 240 V split-phase	120 / 240 V split-phase	120 / 240 V split-phase
AC output voltage	L-N: 120 V +/- 3%; L-L: 240 V +/- 3%	L-N: 120 V +/- 3%; L-L: 240 V +/- 3%	L-N: 120 V +/- 3%; L-L: 240 V +/- 3%
Input voltage limits (bypass/charge mode)	L-N: 78 to 140 V (120 V nominal); L-L: 160 to 270 V (240 V nominal)		
AC1 voltage range (sell mode)	L-N: 106 to 132 +/- 1.5 V; L-L: 214 to 260 +/- 3.0 V (automatically adjusts when entering sell mode)		
Frequency	60 +/-0.1 Hz	60 +/-0.1 Hz	60 +/-0.1 Hz
AC input frequency range (bypass/charge mode)	55 to 65 Hz (default); 44 - 70 Hz (allowable)		
AC1 frequency range (sell mode)	59.4 to 60.4 +/- 0.05 Hz (automatically adjusts when entering sell mode)		
Total harmonic distortion (THD) at rated power	< 5%	< 5%	< 5%
AC connections	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)	AC1 (Grid), AC2 (Generator)
AC input breaker	60 A two-pole	60 A two-pole	60 A two-pole
Utility interactive	Yes	Yes	Yes
CEC power rating	4.0 kW	4.5 kW	5.760 kW
Efficiency			
Peak	94.0%	95.6%	95.4%
CEC weighted	91.0%	93.0%	92.5%
General specifications			
NEMA degree of protection	NEMA1R (indoor rating) (sensitive electronic components sealed inside enclosure)		
Product weight	52.5 kg (116.0 lb)	53.5 kg (118.0 lb)	55.2 kg (121.7 lb)
Shipping weight	74.0 kg (163.0 lb)	75.0 kg (165.0 lb)	76.7 kg (169.0 lb)
Product dimensions (H x W x D)	58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)	58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)	58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)
Shipping dimensions (H x W x D)	71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)	71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)	71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)
Ambient air temperature for operation	-25 to 70°C (-13 to 158°F) (power derated above 45°C (113°F))		
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	865-1010	865-1005	865-1000-01
Features and options			
Display type	Status LEDs indicate AC In status, faults/warnings, equalize mode, battery level. Three-character display indicates output power or charge current, fault/warning codes. On/off and equalize buttons		
Supported battery types	Flooded (default), Gel, AGM, custom		
Battery bank size	100 to 2000 Ah (scaled to PV array size)		
Battery temperature sensor	Included		
Multiple-unit configurations	Split-phase: up to four parallel units in 120/240 V. Three-phase: up to two units per phase (six units total)		
Regulatory approvals			
Safety	UL1741, CSA 107.1		
EMC	FCC and Industry Canada Class B		
Interconnect	IEEE 1547 and CSA 107.1		
Accessories			
XW Product Distribution Panel (PDP)	Product no. 865-1015		
XW Connection Kit (CK)	Product no. 865-1020		
System Control Panel (SCP)	Product no. 865-1050		
Automatic Generator Start (AGS)	Product no. 865-1060		
MPPT 60 150 solar charge controller	Product no. 865-1030-1		
MPPT 80 600 solar charge controller	Product no. 865-1032		
XW Configuration Tool (CT)	Product no. 865-1155		
Conext ComBox	Product no. 865-1058		
Specifications are subject to change without notice.			

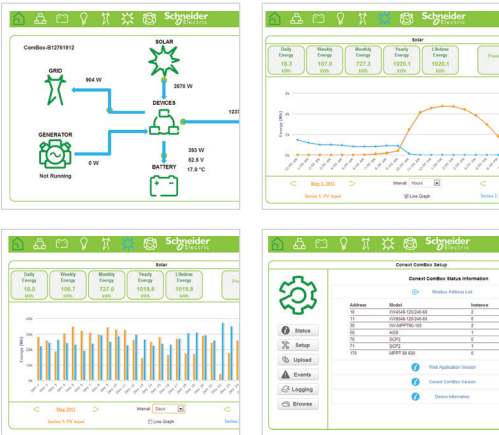
Conext ComBox communication device

New remote monitoring from Schneider Electric

Operators of Conext™ solar systems can now remotely monitor yield performance using devices of their choice, such as personal computers, tablet devices, or building management systems. Data logs and event logs for each device, as well as graphical displays of historical and solar system harvest, and plant yield are easily reviewed using a web browser or Android tablet device. Installers can change the settings of Conext devices during commissioning and react 24/7 to system alerts remotely. A Modbus interface links Conext devices with sophisticated third party software packages and building management systems. Integrated Micro-SD card provides for additional data storage. Conext ComBox is compatible with Xanbus protocol devices.

Why choose Conext ComBox?

- **True bankability**
 - Warranty from a trusted partner with over 177 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**
 - Monitor solar system harvest and yield
- **Designed for reliability**
 - Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST) and Temperature Humidity Bias (THB)
- **Flexible**
 - Configure up to twenty Xanbus protocol devices
 - Works with Conext XW, SW, TX, GT-AUS, MPPT 60-150, MPPT 80-600, AGS, SCP
 - Access Conext devices over Modbus protocol
- **Easy to service**
 - Remotely monitor, faster access and troubleshoot systems 24/7
 - Remotely upgrade ComBox and Conext device firmware
 - Settings are maintained during power or network interruptions
- **Easy to install**
 - Configure devices using web page interface or Android tablet
 - Surface or DIN-Rail mounting
 - Multiple power supply options



Conext ComBox monitoring system

Product applications

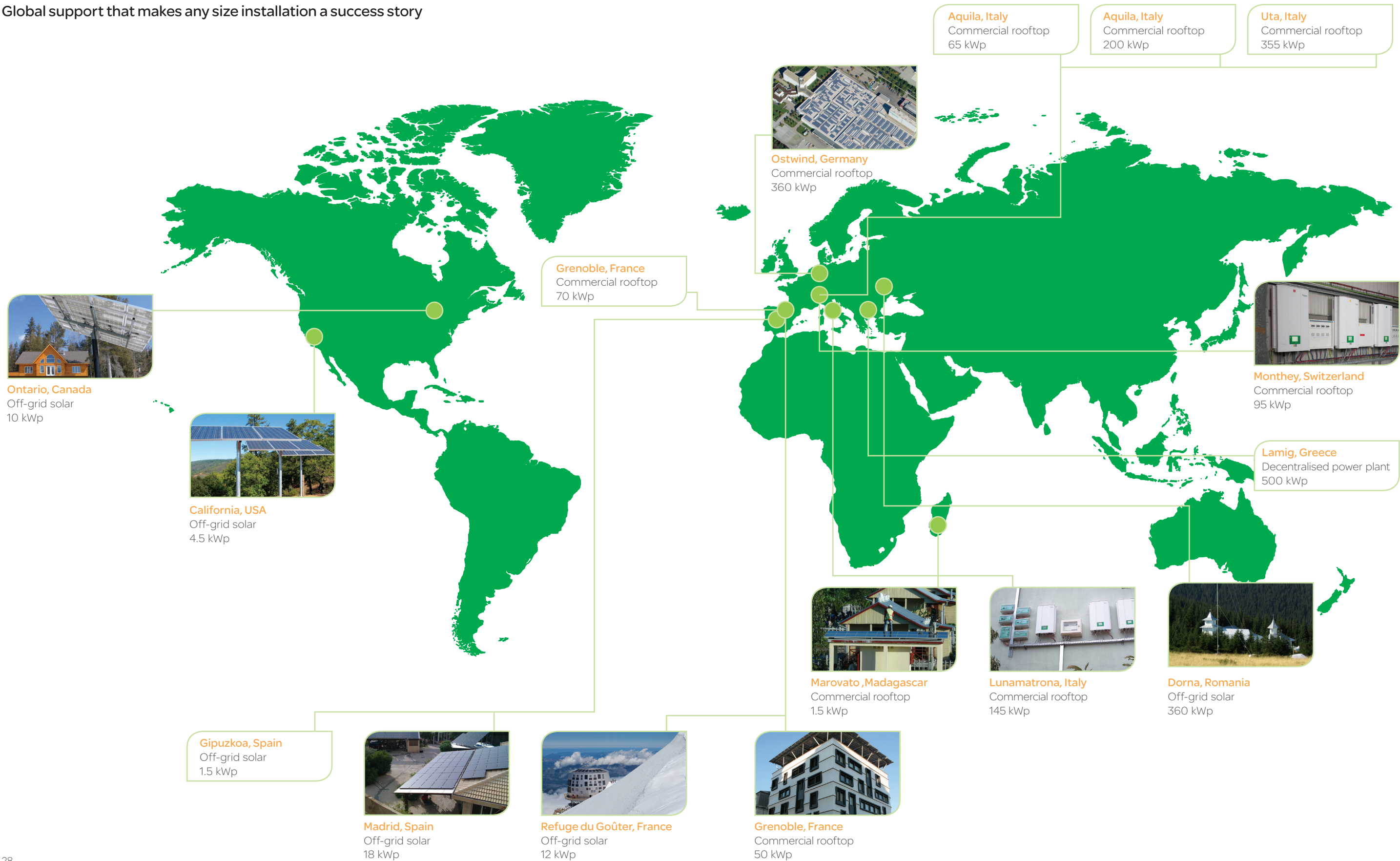


Device short name	Conext ComBox
Electrical specifications	
Communication interfaces	
Xanbus	Connector: 2 x RJ45 Products Supported: Conext XW / SW / TX, GT-AUS, MPPT 60-150, MPPT 80-600, AGS, SCP
Ethernet	Connector: 1 x RJ45, 10 / 100 MBPS Server: FTP, Web, Modbus TCP/IP Client: SMTP, SNMP, Auto discovery: DPWS Modbus (1 x Connector: Screw 5-terminal, 16-24AWG, 2-wire serial, 19200 bps)
RS485	
Data Interfaces	
USB 2.0-Host	Connector: USB-A, Protocols: MSD (firmware upgrades and device locator)
USB 2.0-Device	Connector: USB-mini B, Protocols: CDC, MSD (data extraction)
Power supply options	
DC input	Certified / Listed / CE, using a 6.5 mm power plug, 9 - 24 Vdc (universal multi-pin AC adapter included)
Power consumption	4 W typical / 10 W peak
Xanbus	When connected to Conext XW / SW or MPPT 80 600, or more than one Conext TX
RS485	24 Vdc (safety extra low-voltage only)
Memory	
Internal	96 MB flash
External	Micro-SD Card (2GB or more, class 2 or better recommended)
General specifications	
Weight	0.25 kg (0.55 lb)
Dimensions (H x W x D)	11.4 x 16.9 x 5.4 cm (4.5 x 6.7 x 2.1 in)
Housing/mounting system	ABS Plastic / DIN-rail: 35 mm, Wall-mount: 2-screw
IP rating/mounting Location	IP 20, NEMA 1, Indoor only
Status display	5 x LEDs
Temperature	Operating: -4 to 122 °F (-20 to 50 °C) / storage: -40 to 185 °F (-40 to 85 °C)
Humidity	Operating: < 95%, non-condensing / storage: < 95%
Part number	865-1058
Features	
Programmable dry contact relay	Screw 3-terminal, 16-24 AWG, NC-Com-NO, Form: Class 2, 24 Vdc 4 A max
Graphical user interface	Internet Browser, Android tablet app
Remote firmware upgrades	Yes (ComBox and connected Xanbus devices)
Custom datalogger	Yes (requires Micro-SD card)
Warranty	5 years
Number of Xanbus devices	Up to 20 (depending on device type)
Regulatory approvals	
Marking	CE, RCM
EMC immunity	EN61000-6-1 residential / commercial
EMC emission	EN61000-6-3, FCC Part 15 Class B, Ind. Canada ICES-003 Class B
Substances/environmental	RoHS
Works with	
Conext XW inverter/charger (230 V / 50 Hz)	XW 4024 product no. 865-1045-61 XW 4548 product no. 865-1040-61 XW 6048 product no. 865-1035-61
Conext XW inverter/charger (120 / 240 V / 60 Hz)	XW 4024 product no. 865-1010 XW 4548 product no. 865-1005 XW 6048 product no. 865-1000-01
Conext SW inverter / charger (120 V)	SW 2524 product no. 865-2524 SW 4024 product no. 865-3524
Conext SW inverter / charger (230 V)	SW 2524 product no. 865-2524-61 SW 4024 product no. 865-3524-61
Conext TX inverter (N. America)	TX 2800 product no. 878-2801 TX 3300 product no. 878-3301 TX 3800 product no. 878-3801 TX 5000 product no. 878-5001
MPPT 60 150 solar charge controller	Product no. 865-1030-1
MPPT 80 600 solar charge controller	Product no. 865-1032
System Control Panel (SCP)	Product no. 865-1050
Automatic Generator Start (AGS)	Product no. 865-1060
GT-AUS inverter	GT 2.8 product no. 864-1030 GT 5.0 product no. 864-1039-01

Specifications are subject to change without notice.

Selected customer references

Global support that makes any size installation a success story



See our solutions on YouTube at www.youtube.com/schneidersolar

Make the most of your energySM

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