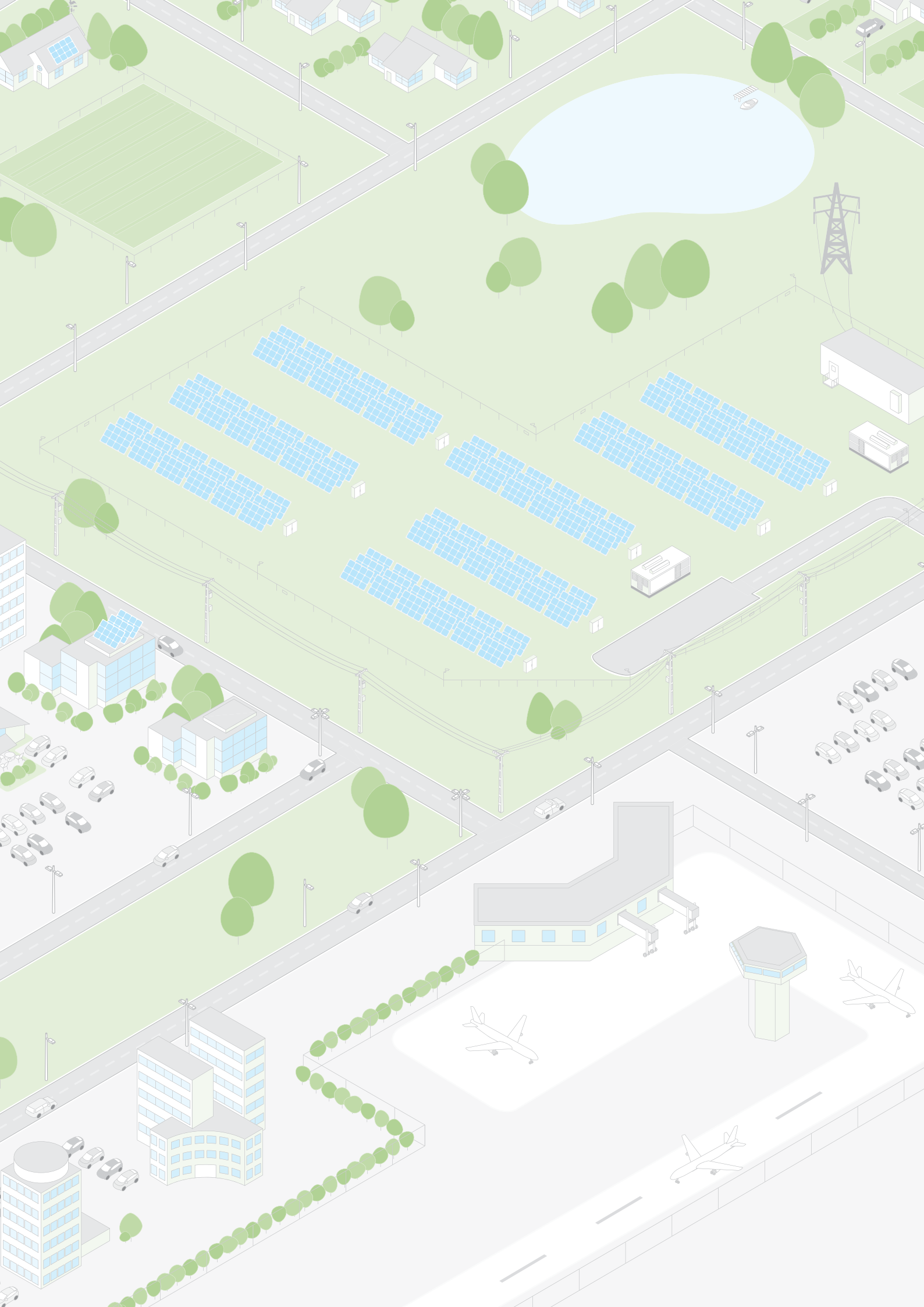


Schneider Electric Solar Business Catalog

2013 / 2014







In 2013, Schneider Electric demonstrates its long-term commitment to the development of the Solar industry with the launch of many new products and solutions.

These new offers address the needs expressed by customers in all market segments for competitiveness, reliability, ease of installation and service. This year, we are particularly proud to have been distinguished as one of the Top 3 "most competitively positioned PV inverter companies" by GTM Research, in part thanks to the competitiveness of our new products and solutions!

"Schneider Electric
is among **Top 3**
Most Competitive
Inverter Companies
in the world according
to GTM Research."

In the "large commercial buildings and PV power plants solutions" section, our offer is based on the best-in-class architecture standardized around Conext Core XC inverters, Conext Control SCADA system, our new range of array boxes and various PV boxes adapted to local regulations and environmental conditions. This solution package has proven its competitiveness and versatility to numerous customers and projects in geographies as diverse as the USA, India, France, Chile, UK, Japan, Thailand or South Africa.

In the grid-tie rooftop market, we have launched a comprehensive series of great products, with Conext RL for residential applications, Conext TL for buildings or decentralised farms, a large range of DC and AC protection boxes and Conext Monitor 20, our new communication gateway.

In the off-grid and backup power market, we are bringing to market globally our legendary Conext XW series and completing our range with the brand-new, smaller-size Conext SW. The addition of ComBox, an intuitive communication gateway, is making the set-up and monitoring of off-grid installation easier than ever.

All these products benefit from Schneider Electric's stringent design for reliability process, that includes our proprietary MEOST approach (Multiple Environmental Over-Stress Testing).

Price competitiveness, product reliability and the global service footprint of Schneider Electric combine to bring you unrivalled peace of mind.

Laurent Bataille
Sr. VP Solar Business

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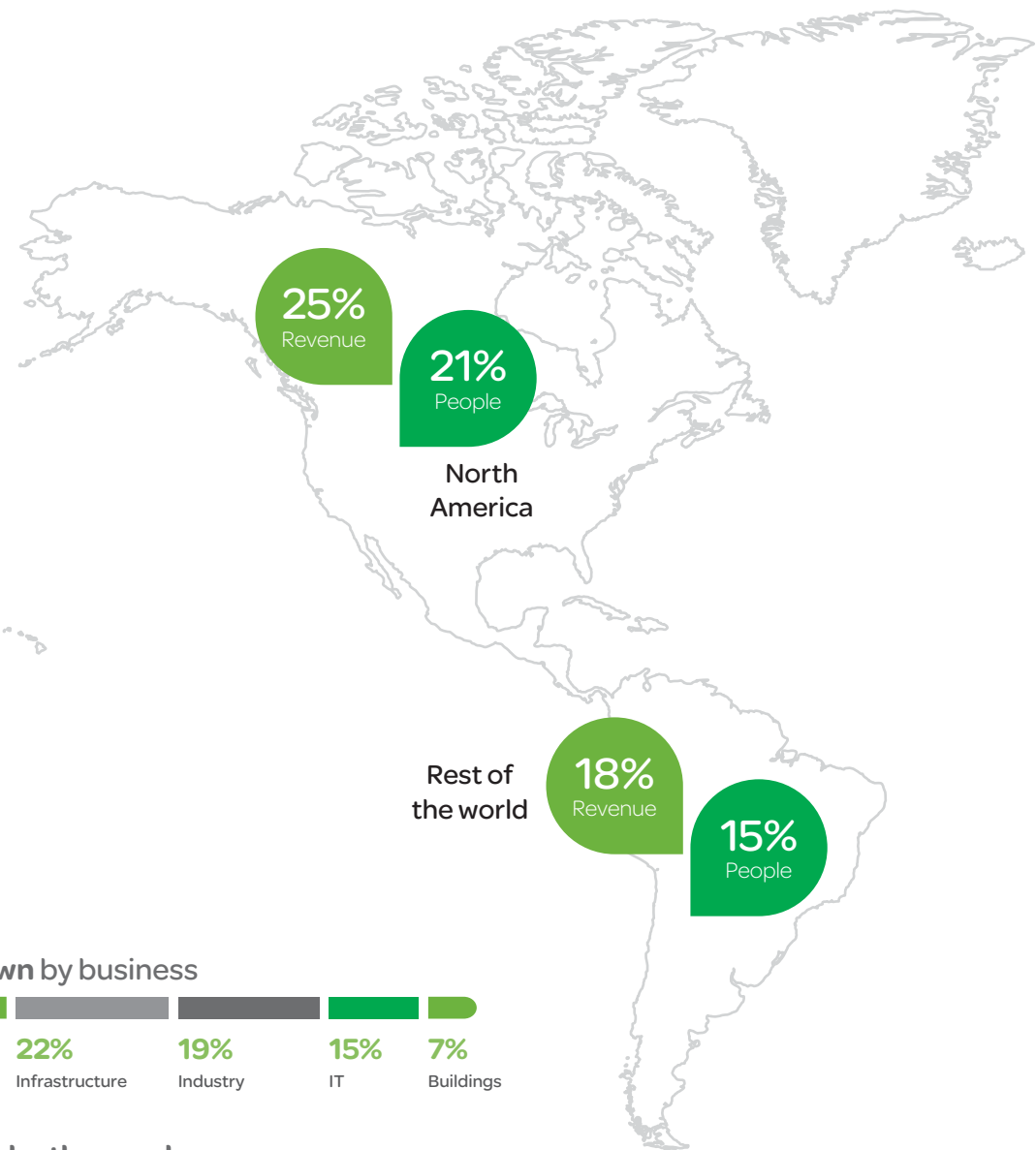
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Schneider Electric at a glance

As the global specialist in energy management, Schneider Electric has a 177-year legacy of innovation, international scope, and corporate responsibility. Across three centuries, we have contributed to the transformation of multiple industries, including iron, steel, shipbuilding, and electricity. Today, our more than 140,000 employees in over 100 countries bring a singular mission to their work each day: **to help people make the most of their energy.**

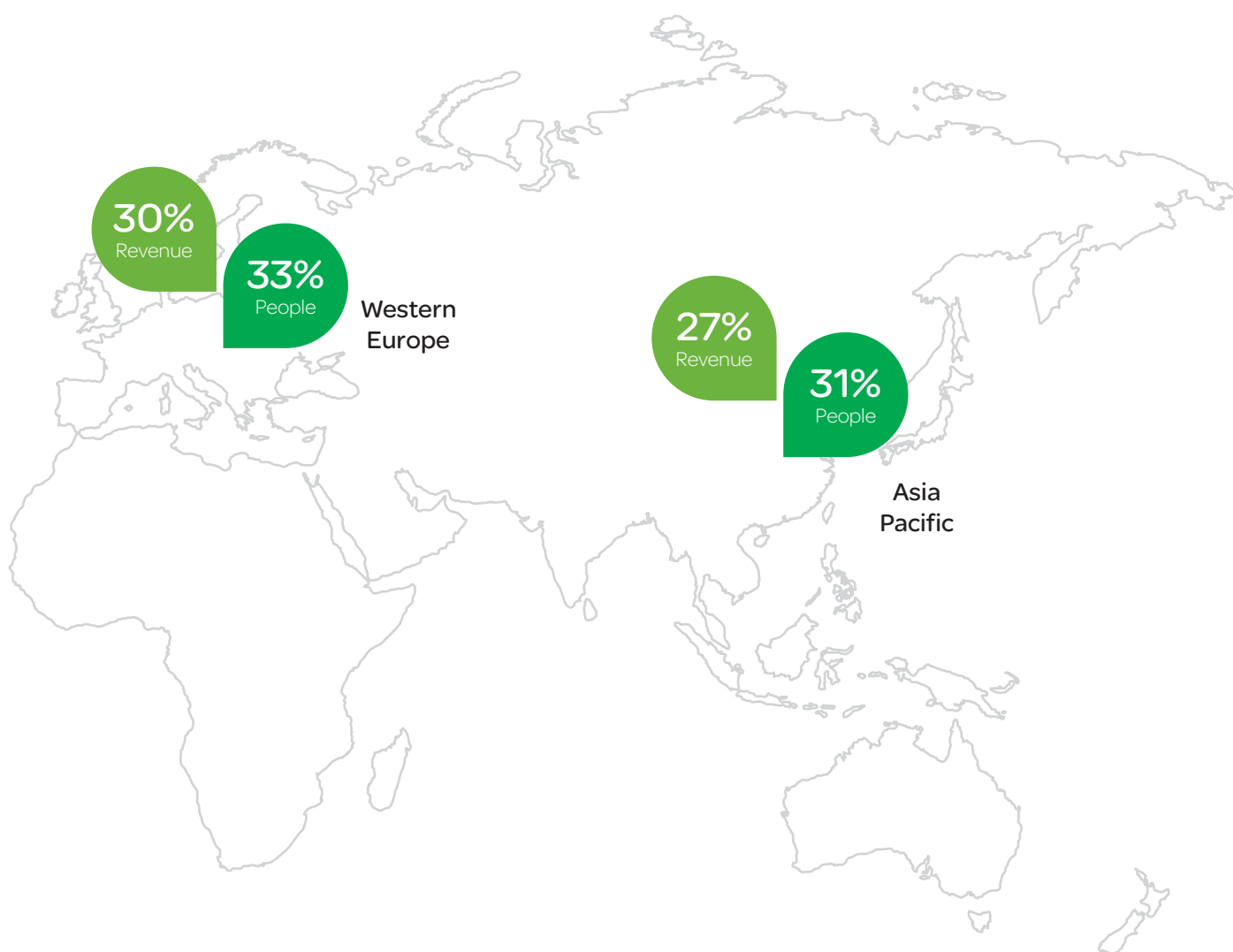


Revenue breakdown by business



Schneider Electric by the numbers

177 years of history	€24 billion in consolidated revenue	140,000 total workforce in 100+ countries	€1 billion devoted to R&D representing almost 4.4% of our sales
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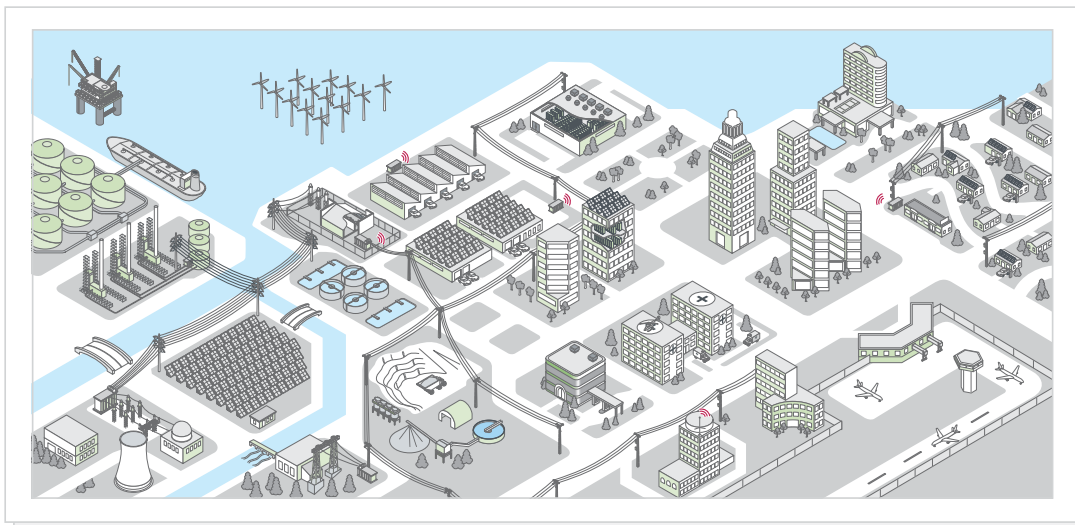
41% sales in new economies	€2.02 billion net income* +12% vs. 2011	110 volunteers acting as delegates of the Schneider Electric Foundation in 75 countries	#1 or #2 player in 90% world group sales
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*Adjusted from impairment of goodwill.

Delivering solutions that align business performance and sustainability

Schneider Electric delivers efficient solutions across the energy chain, enabling people to experience and transform efficiency together at home and work, across the grid, and in towns and cities.

- > **Efficiency:** Implementing the right services, systems, and technology to reduce energy consumption, cost per kWh, and operating expenditure
- > **Intelligence:** Accessing smart, real-time data and information that can be shared, optimized, and delivered across integrated systems through connected and open platforms, with the right level of information for each user
- > **Sustainability:** Coupling efficient solutions with actionable data to provide the capability for any user to optimize energy usage, curb CO2 emissions, and improve long-term ROI on CapEx and OpEx



Smart grid

Grid infrastructures are ageing overloaded, and in need of repair. They need to **become smarted** to adapt to a more complex environment.

Smart cities

Cities today contain 50% of the world's populations, consume 75% of **global energy**, and give off 80% of **greenhouse gas emissions**.

Source: UN State of the World Cities Report 2012

Enhancing the smart grid revolution...

By supporting renewable energy, flexible distribution, active energy efficiency and energy management, electric vehicles, and real-time grid management.



Supporting urban efficiency...

By setting the vision, bringing in the technology, working on the integration, adding the innovation, and driving collaboration.



Making infrastructure, industry IT, buildings, and homes more efficient ...

At work, by enabling up to 30 per cent energy savings, improving productivity, reducing costs, enhancing comfort, and increasing security.

At home, by creating comfortable, safe, efficient, and automated living spaces.



Schneider Electric's Solar Business

The Solar Business of Schneider Electric is focused on designing and developing products and solutions for the solar power conversion chain and providing best-in-class global customer services and technical support.

As the solar market goes through a rapid wave of bankruptcies and consolidations, the industry is increasingly concerned about securing the long-term future of installations. Peace of mind is key and not every solar PV company today can offer assurance that spare parts, service and technical support will be continually available over the 20+ year life of a solar installation.

Schneider Electric is a bankable partner you can trust for providing superior reliable designs, neatly integrated solutions packages and excellent long term technical support world wide.

Why Partner with Schneider Electric?

- > We offer you true bankability for all projects, no matter the size
- > Experience you can depend on. We've been in business for over 177 years with world wide leadership in power conversion and electric distribution technologies
- > Complete photovoltaic solutions for any size installation from a single supplier
- > Global service and support infrastructure with local presence in over 100 countries
- > Products are designed and built to the highest standards and are engineered specifically to meet the demanding requirements of your installation



For more information about Schneider Electric and solar solutions, please visit www.schneider-electric.com/solar



**"Schneider Electric
is a bankable partner
that you can trust"**

Global comprehensive services

- > **Global service and on-site support:** with global service and support infrastructure and local presence in over 100 countries, we can support your PV parks anywhere in the world
- > **Product warranty and service contracts:** Schneider Electric can provide different service levels to address customer demands, ranging from basic product warranty, preventive maintenance or guaranteed performance of inverters, low voltage components, medium voltage equipments and monitoring system; this wide spectrum of technical competencies of our service teams position Schneider Electric as one of the leader in offering operation and maintenance of the PV plant
- > **Commissioning support:** visual inspections, functional testing and system support
- > **Technical support:** specialist in system design, installation, safety, system operation and quality



Overview of Service Offering							
	Spare parts availability	Technical support	Preventive activities		Corrective Activities		Performance guarantee
			Spares costs	Labor costs	Spares costs	Labor costs	
Warranty					●	●	
Technical support	●	●					
Essential	●	●		●			
Optimum	●	●		●		●	
Elite	●	●	●	●	●	●	
Ultra	●	●	●	●	●	●	●



Choose Schneider Electric for state-of-the-art products and reliable services you can depend on

24-hour technical assistance



Designing robust solar products

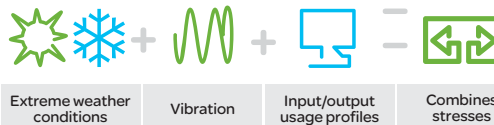
We have extensive design for quality and reliability practices in place to ensure quality, reliability and safety is built into our products. As a part of this approach, all of our products undergo robust design for quality and reliability practices as well as reliability testing throughout the product development cycle in order to evaluate potential risk before commercial launch.

Our testing process doesn't stop once the product is launched. As a part of ongoing continuous improvement, we perform ongoing reliability monitoring to ensure that the product robustness is maintained after industrialization.

Key aspects of design for quality and reliability

- > WCA (Worst Case Analysis)
- > Useful life analysis
- > Design standard check
- > D-FMEA (Design Failure Modes, Effects Analysis)
- > A-FMEA (Application Failure Modes, Effects Analysis)
- > FIT/ MTBF (Failure In Time/Mean Time Between Failures) prediction
- > List of preventive maintenance parts for field serviceable products
- > Reliability testing

MEOST Reliability testing is an accelerated stress test that identifies potential weaknesses which may be uncovered during the life span of the product.



Types of reliability testing during product development cycle

- > THB (Temperature Humidity Bias)
- > Salt-fog testing
- > HALT (Highly Accelerated Life Test):
Product evaluation process during which thermal stress is combined with vibration and the product's functionality is tested at these combined environments
- > MEOST (Multiple Environmental Over Stress Testing):
Advanced version of HALT, the difference is in combining more stressors based on product application
STRESSORS: temperature step/shock, vibration, power, input DC voltage, output AC voltage and frequency cycling
- > Custom reliability testing:
Used for our large three phase inverters tested in walk-in chamber

Product life cycle reliability testing

- > Qualification of major design improvements
- > Continuous reliability monitoring to ensure the same level of reliability throughout the product life cycle



At Schneider Electric's
Solar Business,

customer satisfaction

is everyone's number one priority

We are committed
to bringing a
differentiated and
superior experience
to our customers

- Providing outstanding solutions, products and services
- Addressing customer issues professionally
- Ensuring a consistent experience worldwide
- Complying with the requirements

We develop an
exemplary customer-
centric culture

- Giving precedence to customer satisfaction over any other priority
- Listening with humbleness and acting on our customers' feedback
- Delivering on our commitments
- Communicating proactively and transparently

We empower and
train our people to
make no compromise
on quality

- Our managers lead by example
- Our people enjoy autonomy and develop accountability
- We plan, control and relentlessly improve with our business process excellence tools and methodologies
- We recognize and share best practices and attitudes



The ultimate measure of quality is **customer satisfaction**



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



True bankability



Higher return on investment



Designed for reliability



Flexible



Easy to service



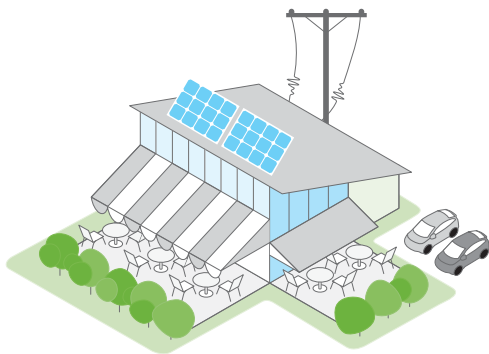
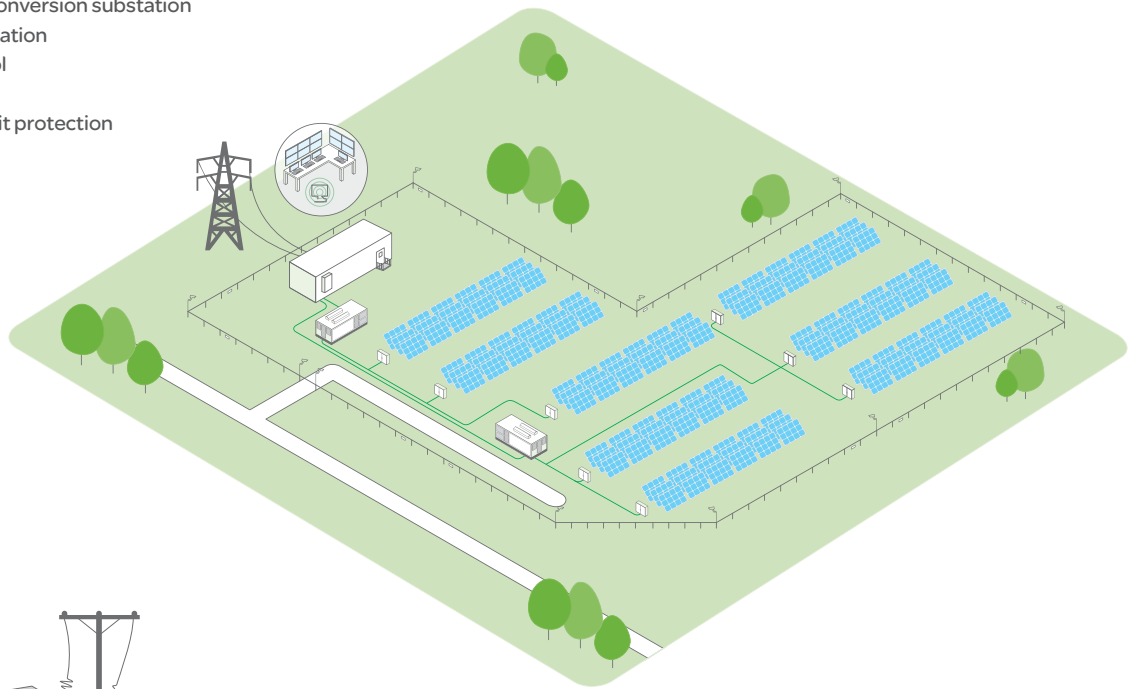
Easy to install

Schneider Electric solar solutions

PV power plant solutions

- Inverters and power conversion substation
- Grid connection substation
- Monitoring and control
- Array box
- Switchgears and circuit protection

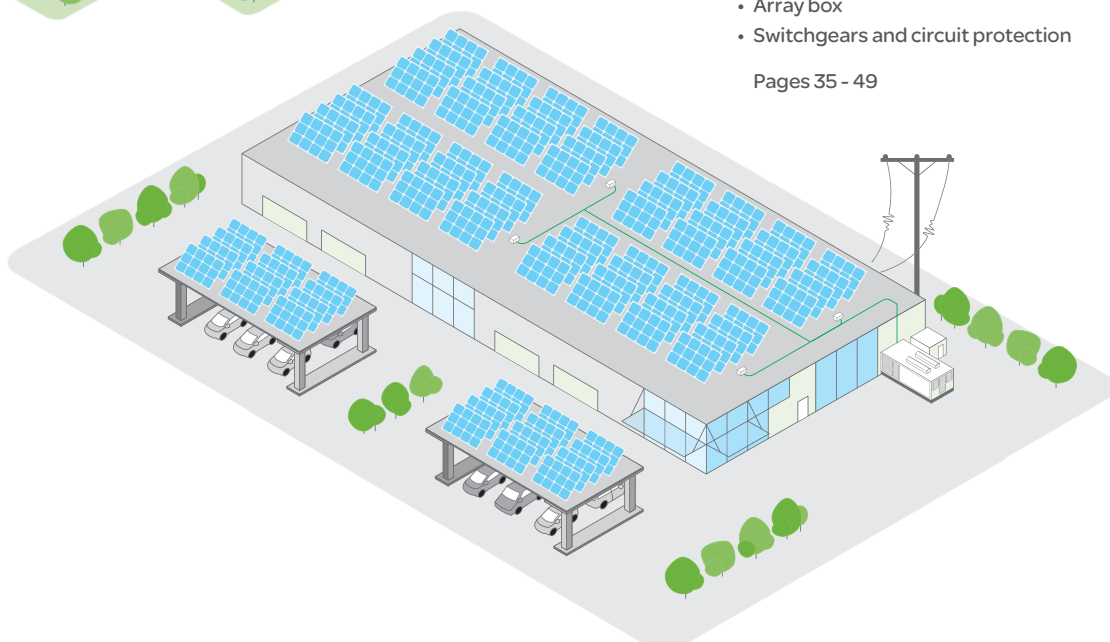
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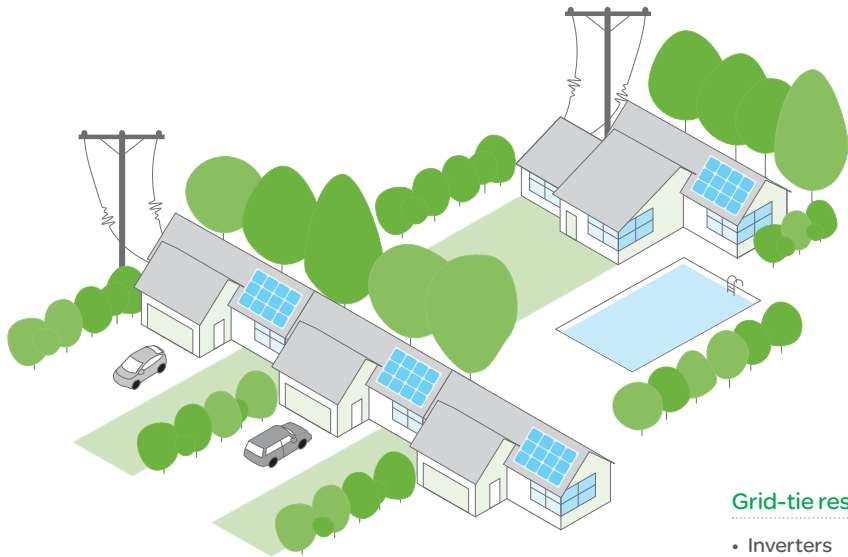


Grid-tie commercial building solutions

- Inverters and power conversion substation
- Grid connection substation
- Monitoring and control
- Array box
- Switchgears and circuit protection

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Grid-tie residential solutions

- Inverters
- Monitoring
- Distribution panels
- Circuit protection

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Off-grid solar and backup power solutions

- Inverters and chargers
- Multi source management
- Monitoring
- Circuit protection

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Large commercial buildings and PV power plants solutions

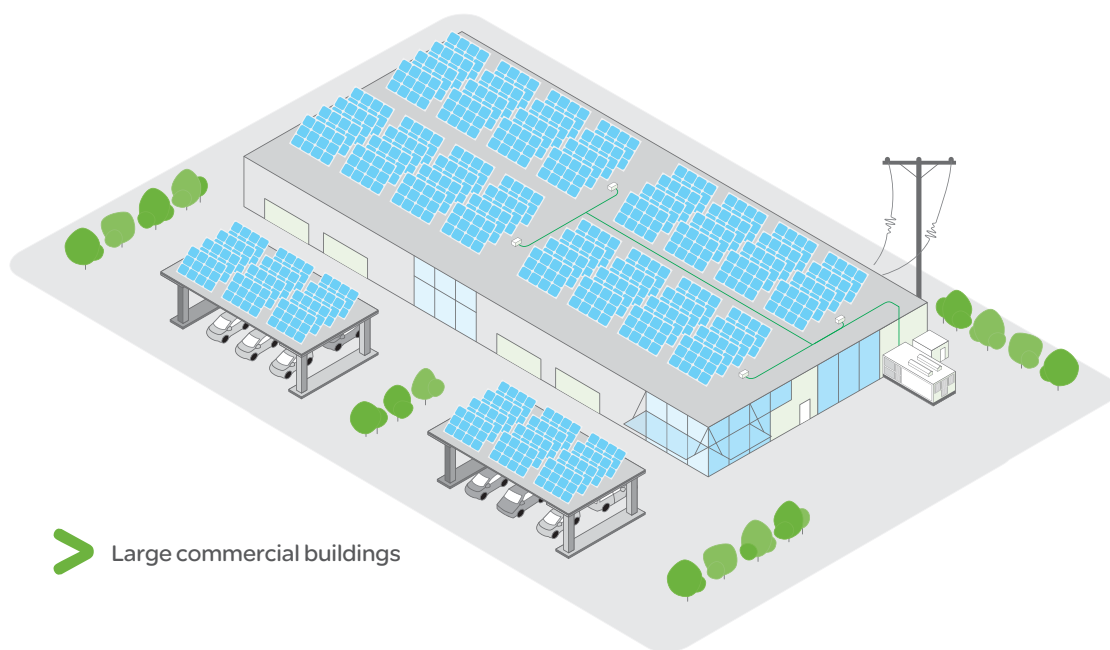


Istres (France)

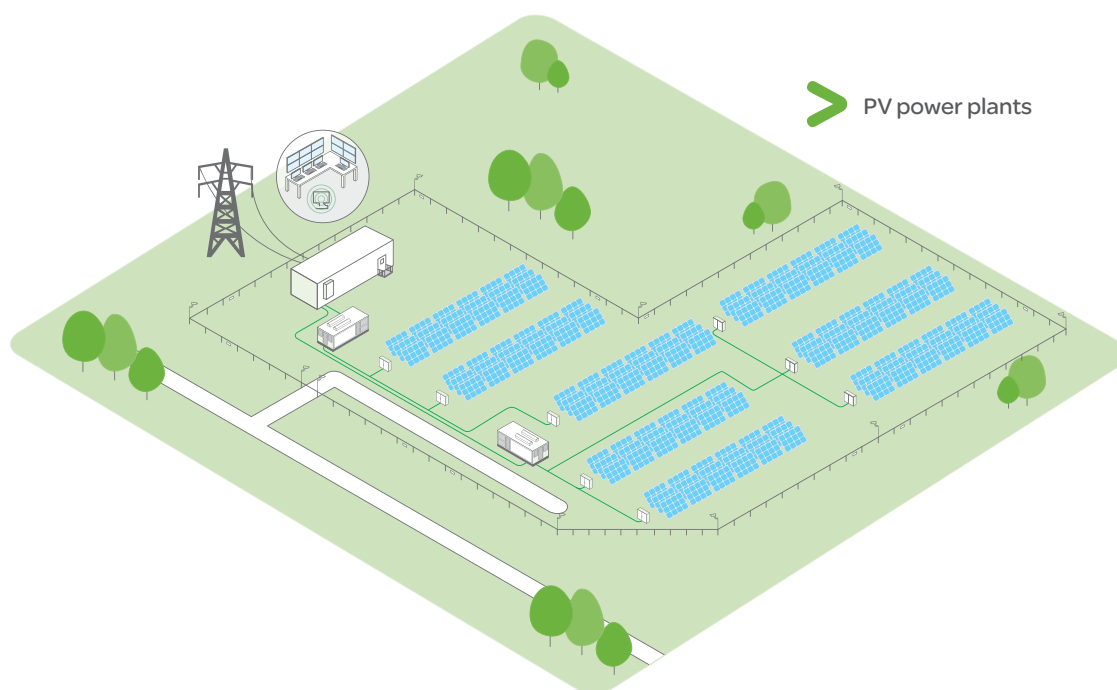
Large commercial buildings and PV power plants solutions

When it comes to large-scale solar, Schneider Electric has both the experience and the proven technology to help make your investment a success.

Schneider Electric solutions for PV power plants and large commercial buildings combine proven products with the kind of support only a global company can provide. Our balance-of-system solutions include everything you need to efficiently distribute and manage locally generated solar energy, from panel DC output to the grid connection.



> Large commercial buildings

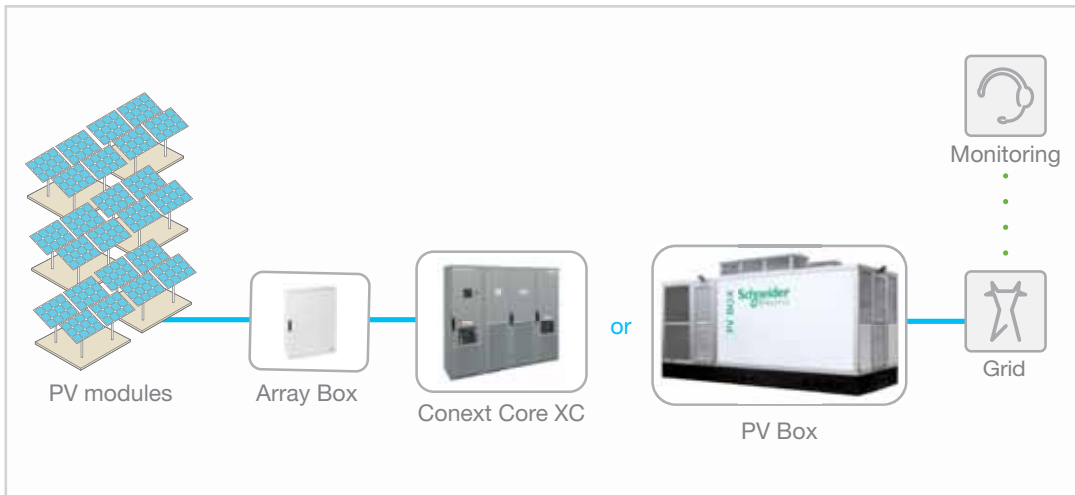


> PV power plants

Designing your solar solution

Schneider Electric solutions for large commercial buildings and PV power plants include everything you need to efficiently distribute and manage locally generated solar energy, from panel DC output to the grid connection.

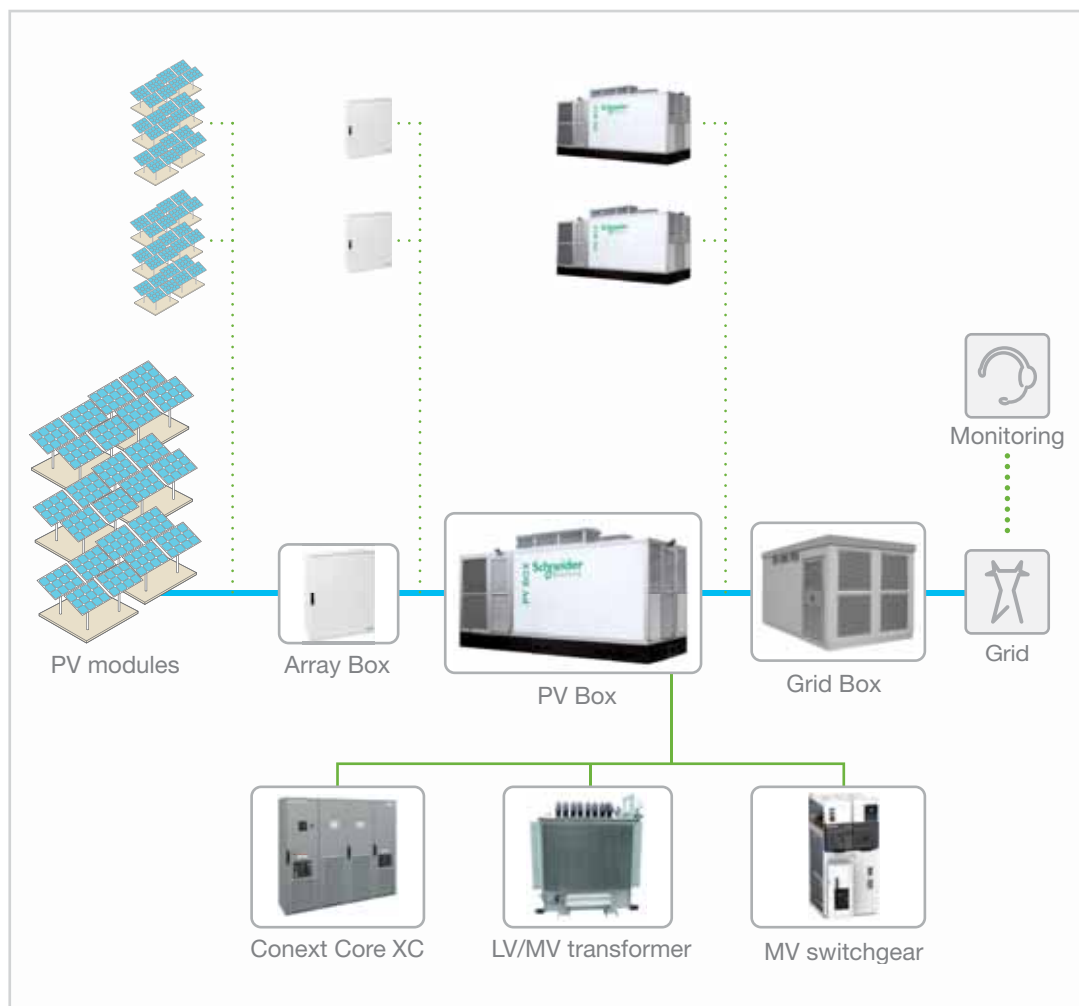
> Large commercial building solutions using the Conext Core XC or the PV Box



A balance-of-system solution from Schneider Electric includes:

- > Power collection and string monitoring
- > Power Conversion and integration to the grid
- > Supervision, monitoring and control
- > Site security

> PV power plants solutions using the PV Box



PV Box

Containerized plug and play power conversion system adapted to customer requirements and local standards

PV Box is a power conversion system. In PV plant installation, it operates between DC field and AC MV grid connection point. The PV Box performs the DC power concentration, the DC/AC conversion and the AC voltage elevation to the grid voltage level. It ensures the protection of the maintenance people and the installation against electrical faults such as short-circuit and lightning. The optimized versions of the PV Box allow a reduction of the balance of systems cost, an increase of the reliability and an improvement of construction lead times.

Why choose PV Box?



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

- Compressed construction lead-times through factory integrated solution
- Reduced transportation, off-loading and on-site labor costs
- Enhanced uptime thanks to qualified and reliable designs



Designed for reliability

- Designed to withstand severe weather conditions for tropical and desertic environments
- Undergone extensive safety, quality and reliability risk mitigation
- Robust design through rigorous Custom Reliability Testing



Flexible

- Customizable to be compliant with customer local building codes



Easy to service

- Fully monitored solution
- Convenient and safe enclosure design for maintenance purposes
- Local Schneider Electric service and maintenance available in 100+ countries



Easy to install

- Ease in transportation due to its compact and light design (<20t, minimized width, height and length for easy shipping by road and by sea)
- Solution delivered pre-assembled, configured and tested to reduce on-site labor and project duration



IEC version

Schneider Electric also offers designs adapted to customer needs based on special country requirements. Some examples of *engineered to order* versions:



North American version



German version

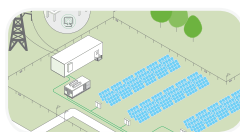


Indian version

Product applications



Large commercial



Centralised PV plants

Device short name	PV Box 1080	PV Box 1260	PV Box 1360
Electrical specifications			
Input ratings (DC)			
Recommended PV power	2 x 621 kWp	2 x 725 kWp	2 x 782 kWp
Voltage range, MPPT	440 - 800 V (at PF=1)	510 - 800 V (at PF=1)	550 - 800 V (at PF=1)
Max. input voltage, open circuit	1000 V	1000 V	1000 V
Max. DC current	2 x 1280 A	2 x 1280 A	2 x 1280 A
Output ratings (AC)			
Nominal power	1080 kVA	1260 kVA	1360 kVA
Nominal voltage	up to 36 kV	up to 36 kV	up to 36 kV
Frequency	50 Hz	50 Hz	50 Hz
General specifications			
Inverters			
Power rating	2 x XC 540	2 x XC 630	2 x XC 680
DC recombinder			
Standard configuration 1	2 x 6 input channels max. with fuses between 350 and 400 A	2 x 6 input channels max. with fuses between 350 and 400 A	2 x 6 input channels max. with fuses between 350 and 400 A
Standard configuration 2	2 x 8 input channels max. with fuses between 160 and 350 A	2 x 8 input channels max. with fuses between 160 and 350 A	2 x 8 input channels max. with fuses between 160 and 350 A
Transformer			
Power rating	1080 kVA	1260 kVA	1360 kVA
Standard	IEC 60076	IEC 60076	IEC 60076
MV protection			
Grid voltage < 24 kV	RM6	RM6	RM6
Grid voltage 24 to 36 kV	Flusarc	Flusarc	Flusarc
Auxiliary power supply			
Voltage / frequency	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Power rating	2500 VA, ensured by UPS	2500 VA, ensured by UPS	2500 VA, ensured by UPS
Enclosure			
Dimensions			
During transportation (H x W x D)	302.3 x 249.4 x 674.0 cm (119.0 x 98.1 x 265.3 in)	302.3 x 249.4 x 674.0 cm (119.0 x 98.1 x 265.3 in)	302.3 x 249.4 x 674.0 cm (119.0 x 98.1 x 265.3 in)
Assembled on site (H x W x D)	332.3 x 249.4 x 674.0 cm (130.8 x 98.1 x 265.3 in)	332.3 x 249.4 x 674.0 cm (130.8 x 98.1 x 265.3 in)	332.3 x 249.4 x 674.0 cm (130.8 x 98.1 x 265.3 in)
Weight			
Weight with standard content	< 20 Tons	< 20 Tons	< 20 Tons
Layout			
Subdivision	Fully separated LV and MV compartments	Fully separated LV and MV compartments	Fully separated LV and MV compartments
Cooling			
LV compartment	Forced, ensured by inverter fans. No extra fans	Forced, ensured by inverter fans. No extra fans	Forced, ensured by inverter fans. No extra fans
MV compartment	Natural	Natural	Natural
IP grade			
LV compartment	IP54 (with filters)	IP54 (with filters)	IP54 (with filters)
Transformer / MV protection	IP21 / IP33	IP21 / IP33	IP21 / IP33
Operating conditions			
Operating temperature range	-10°C / +45°C, power derating for higher ambient		
Max. relative humidity	95% non condensing		
Altitude	< 1500 m		
Max. solar irradiance	1200 W / m2		
Max. wind speed	123 km / h		
Max. snow load	250 kg / m2		
Seisms	Peak horizontal acceleration up to 0.3* g		
Mechanically active pollution	< 0.2 mg / m3		
Chemically active pollution	Rural and suburban environment		
Other features			
Lighting	Indoor and outdoor lighting		
Energy supply for servicing	Socket outlets		
Heating	Heater with thermostat		
Safety	Emergency lighting, safety and information kit according to IEC 62271-202		

Specifications are subject to change without notice.

Conext Core XC series central inverters

High availability and enhanced efficiency from a provider you can trust

The Conext™ Core XC Series is a new line of central inverters designed for high efficiency and flexibility for any PV panel type and installation. The Conext Core XC Series has peak efficiencies of 98.9% and its flexibility allows the inverter to be configured with voltage and power outputs up to 680 kW. In addition, the Conext Core XC Series is designed to allow for DC inputs up to 1000 Vdc for longer string lengths. It contains the latest grid management features to meet global utility requirements.

Why choose Conext Core XC?



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 efficiency: 98.9% peak efficiency and 98.6% weighted EU
- Increased uptime due to high reliability and comprehensive global service network



Designed for reliability

- Robust design through rigorous Custom Reliability Testing



Flexible

- Variety of power outputs from 540 kW to 680 kW
- Full grid management features including voltage/frequency high and low ride through, reactive current support, VAR control, and frequency based active power control
- Configurable firmware to allow for easy adjustments to changing utility requirements



Easy to service

- Integrated switchgear using Masterpact NW air circuit breakers
- Full suite of alarms and troubleshooting tools allow for remote diagnostics



Easy to install

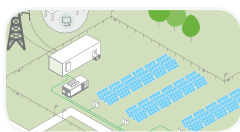
- Compact footprint for easy integration into compact enclosures
- Integrated AC and DC switchgear standard
- In-built hardware for 1000 VDC start-up and LVRT features



Product applications



Large commercial



Centralised PV plants

Device short name	XC 540	XC 630	XC 680
Electrical specifications			
Input (DC)			
Suggested photovoltaic power	621 kW	725 kW	782 kW
Input voltage range, MPPT	440 - 800 V (at PF=1)	510 - 800 V (at PF=1)	550 - 800 V (at PF=1)
Input voltage range, operating	440 - 850 V	510 - 850 V	550 - 850 V
Max. input voltage, open circuit	1000 V	1000 V	1000 V
Max. input current	1280 A	1280 A	1280 A
Output (AC)			
Nominal output power	540 kVA	630 kVA	680 kVA
Output voltage	300 V	350 V	380 V
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Nominal output current	1040 A	1040 A	1040 A
Power Factor	0.8 to 1.0 lead / lag	0.8 to 1.0 lead / lag	0.8 to 1.0 lead / lag
Harmonic distortion	< 3% at rated power	< 3% at rated power	< 3% at rated power
Efficiency (to IEC61683)			
Maximum (@ 50Hz)	98.5%	98.7%	98.9%
European (@ 50Hz)	98.3%	98.4%	98.6%
CEC (@ 60Hz)	98.5%	98.5%	98.7%
General specifications			
Power consumption, night time	< 100 W	< 100 W	< 100 W
IP degree of protection	IP20	IP20	IP20
Enclosure material	Steel	Steel	Steel
Product weight	1590.0 kg (3505.0 lb)	1590.0 kg (3505.0 lb)	1590.0 kg (3505.0 lb)
Product dimensions (H x W x D)	208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)	208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)	208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)
Ambient air temperature for operation	-10°C to 45°C (14°F to 113°F) full power. Power derating to 50°C		
Operating altitude	1000 m, derating for higher altitudes		
Relative humidity	0 to 95% non-condensing		
Features and options			
Type of cooling	Temperature-dependent forced convection cooling		
Display type	LCD multifunction removable display standard		
Communication interface	RS485/Modbus standard		
AC/DC disconnect	Load break rated DC disconnect and AC circuit breaker standard		
Ground fault detection/interruption	Optional isolation monitoring relay or GFDI with circuit breaker		
Sub-array combiner	Optional external combiners with various quantities and trip ratings		
Regulatory approvals			
Conext Core XC Series are CE marked for the EMC Directive (EN61000-6-2 and EN61000-6-4) and Low Voltage Directive (EN50178)			
Conext Core XC Series complies with the French order of April 23, 2008			
IEC 61727, PO 12.3 (Spain), French Order of April 23, 2008 (France), US-MV (FERC 661/661A, FRCC, WECC, NERC PRC-024-1), BDEW (Germany)			

Specifications are subject to change without notice. Other input voltage windows and power outputs available.

Conext Core XC-NA series central inverters

High availability and enhanced efficiency from a provider you can trust

The Conext™ Core XC-NA Series is a new line of central inverters designed for high efficiency and flexibility for any PV panel type and installation. The Conext Core XC-NA Series is UL listed to 1000 VDC and comes with integral AC and DC switchgear which meets the requirements of NEC 690.17. In addition, the Conext Core XC-NA comes with an integrated DC combiner with a variety of fuse and monitoring options and a next generation ground fault detection system which helps reduce hazards from PV array blind spots. The Conext Core XC-NA is NEMA 3R rated for outdoor applications and can be provided as part of a skid mounted or PV box solution

Why choose Conext Core XC-NA?



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 efficiency: 98.5% peak and 98% CEC
- Full power operation from -20°C to 50°C with derating at higher temperatures
- Increased uptime due to high reliability and comprehensive service network



Designed for reliability

- Undergone extensive safety, quality and reliability risk mitigation
- Robust design through rigorous Custom Reliability Testing



Flexible

- Variety of power outputs from 540 KVA to 680 KVA
- UL1741 listed (pending) to 1000 VDC
- Full grid management features including VAR control and voltage/frequency ride through



Easy to service

- Integrated AC and DC switchgear using Masterpact NW circuit breakers which meet the requirements of NEC 690.17
- Suite of alarms and troubleshooting tools allow for remote diagnostics
- Pre-connection insulation detection with GFDI helps reduce hazards from PV array blind spots



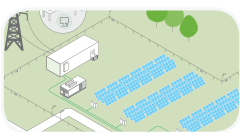
Easy to install

- NEMA 3R rated for outdoor use with skid or PV Box solutions available
- Integrated DC Combiner with 250 A to 400 A fuse options and optional string monitoring
- Standard RS485/Modbus communications, optional Modbus over TCP/IP



ONTARIO FIT
COMPLIANT 

Product applications



Centralised PV plants

Device short name	XC 540-NA	XC 630-NA	XC 680-NA
Electrical specifications			
Input (DC)			
Suggested photovoltaic power	621 kW	725 kW	782 kW
Input voltage range, MPPT	440 - 800 V (at PF=1)	510 - 800 V (at PF=1)	550 - 800 V (at PF=1)
Input voltage range, operating	440 - 850 V	510 - 850 V	550 - 850 V
Max. input voltage, open circuit	1000 V	1000 V	1000 V
Max. input current	1280 A	1280 A	1280 A
Max. input short circuit current	2000 A	2000 A	2000 A
Output (AC)			
Nominal output power	540 kVA	630 kVA	680 kVA
Power factor	0.8 to 1.0 lead / lag	0.8 to 1.0 lead / lag	0.8 to 1.0 lead / lag
Real power	432 kW (at PF=0.8)	504 kW (at PF=0.8)	544 kW (at PF=0.8)
Reactive power range	+/-325 kVAr	+/-375 kVAr	+/-400 kVAr
Output voltage	300 V	350 V	380 V
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Nominal output current	1040 A	1040 A	1040 A
Harmonic distortion	< 3% at rated power	< 3% at rated power	< 3% at rated power
Efficiency			
Maximum	≥98.5%	≥98.5%	≥98.5%
CEC	≥98%	≥98%	≥98%
General specifications			
Power consumption, night time	< 100 W	< 100 W	< 100 W
Degree of protection	NEMA 3R	NEMA 3R	NEMA 3R
Enclosure material	Steel with 3 layer coating (zinc primer, epoxy power coat, polyester powder coat)		
Product weight (includes DC combiner)	1800.0 kg (3968.3 lb)	1800.0 kg (3968.3 lb)	1800.0 kg (3968.3 lb)
Product dimensions (H x W x D) (includes DC combiner)	227.1 x 322.0 x 80.5 cm (89.4 x 126.8 x 31.7 in)	227.1 x 322.0 x 80.5 cm (89.4 x 126.8 x 31.7 in)	227.1 x 322.0 x 80.5 cm (89.4 x 126.8 x 31.7 in)
Ambient air temperature for operation	-20°C to 50°C (-4°F to 122°F) full power. Power derating to 55°C (low temperature option to -35°C)		
Operating altitude	1000 m, derating for higher altitudes		
Relative humidity	0 to 95% non-condensing		
Features and options			
Type of cooling	Temperature-dependent forced convection cooling		
Display type	LCD multifunction removable display standard		
Communication interface	RS485/Modbus standard, Modbus over TCP/IP optional		
AC/DC disconnect	Load break rated DC disconnect and AC circuit breaker standard - meets the requirements of NEC 690.17		
Ground fault detection/interruption	Optional isolation monitoring relay or pre-connection isolation monitoring relay with GFDI (negative or positive grounding)		
Sub-array combiner	Integrated sub-array combiner - up to 10 poles with fuse sizes from 250 A to 400 A, optional string monitoring		
Regulatory approvals			
Conext Core XC-NA Series is certified to the requirements of UL1741, IEEE 1547 and CAN/CSA-C22.2 No.107.1 (pending)			

Specifications are subject to change without notice. Other input voltage windows and power outputs available.

GT100 and GT250 grid-tie solar inverters

High availability from a provider you can trust

Easy to install and operate, the Schneider Electric GT100 and GT250 grid tie inverters automate startup, shut down and fault detection scenarios. They incorporate advanced Maximum Power Point Tracking technology to maximize the energy harvested from a PV array. To ensure reliability, the GT100 and GT250 and their sub-components have been tested using Highly Accelerated Life Testing (HALT) and Multiple Environment Over Stress Testing (MEOST). Multiple inverters are easily paralleled for larger power installations.

Why choose GT100 and GT250?



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

- Designed to help maximize reliability with film-type capacitors and bus bars in the power path



Designed for reliability

- Undergone extensive safety, quality and reliability testing



Flexible

- RS485/Modbus and RS232 communications
- Ontario FIT Compliant available



Easy to service

- Integrated ground fault detection and interruption
- Soft-start circuit to reduce nuisance trips
- Preventative maintenance program
- Remote monitoring and control options



Easy to install

- Integrated design with isolation transformer
- Includes AC and DC disconnects
- Designed for fork lift or sling transportation



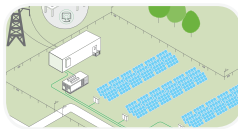
ONTARIO FIT
COMPLIANT



Product applications



Large commercial



Centralised PV plants

Device short name	GT100 208	GT100 480	GT250 480	GT250 600
Electrical specifications				
Input (DC)				
Photovoltaic power	105 kW	105 kW	260 kW	260 kW
Input voltage range, MPPT	300 to 480 V	300 to 480 V	300 to 480 V	310 to 480 V
Max. input voltage, open circuit	600 V	600 V	600 V	600 V
Max. input current	347 A	347 A	867 A	867 A
Max. input short circuit current	460 A	460 A	1214 A	1214 A
Utility backfeed current	0 A	0 A	0.1 A	0.1 A
Output (AC)				
Nominal output power	100 kW	100 kW	250 kW	250 kW
Output voltage	208 V wye	480 V, wye	480 V delta	600 V delta
Frequency	60 Hz (+0.5 Hz / -0.7 Hz)	60 Hz (+0.5 Hz / -0.7 Hz)	60 Hz (+0.5 Hz / -0.7 Hz)	60 Hz (+0.5 Hz / -0.7 Hz)
Max. continuous AC output current	78 A	121 A	301 A	241 A
Power factor	> 0.99	> 0.99	> 0.99	> 0.99
AC current distortion	<5% THD at rated power	<5% THD at rated power	<5% THD at rated power	<5% THD at rated power
DC Current Ripple	<2% at rated power	<2% at rated power	<2% at rated power	<2% at rated power
Topology	Isolation transformer standard and integrated within the inverter enclosure			
Efficiency				
Maximum	96.2%	96.7%	96.8%	96.8%
CEC weighted	95.0%	96.0%	96.0%	96.0%
General specifications				
Power consumption, night time	< 100 W	< 100 W	< 35 W	< 35 W
NEMA degree of protection	Type 3R (outdoor rating)	Type 3R (outdoor rating)	Type 3R (outdoor rating)	Type 3R (outdoor rating)
Enclosure material	Corrosive resistant, powder-coated steel			
Product weight	1361.0 kg (3000.0 lb)	1361.0 kg (3000.0 lb)	2018.0 kg (4450.0 lb)	2018.0 kg (4450.0 lb)
Product dimensions (H × W × D)	186.2 x 170.2 x 117.1 cm (73.3 x 67.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)	186.2 x 170.2 x 117.1 cm (73.3 x 67.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)	219.2 x 228.6 x 117.1 cm (86.3 x 90.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)	219.2 x 228.6 x 117.1 cm (86.3 x 90.0 x 46.1 in) (Removable air intake reduces depth by 12 in for fitting through doors)
Ambient air temperature for operation	-15°C to 50°C (5°F to 122°F) available lower temperature option with space heaters	-35°C to 45°C (-31°F to 113°F)	-15°C to 50°C (5°F to 122°F) available lower temperature option with space heaters	-35°C to 45°C (-31°F to 113°F)
Operating altitude	2000 m (6562 ft) without de-rating			
Relative humidity	0 to 95% non-condensing	0 to 95% non-condensing	0 to 95% non-condensing	0 to 95% non-condensing
Part number	1-153392-01*	1-153391-01*	820-0200-01-01 820-0200-02-01 820-0200-05-01 820-0200-06-01	820-0200-03-01
Features and options				
Type of cooling	Forced convection cooling			
Display type	Standard bright fluorescent green Vacuum display			
Communication interface	RS485 / Modbus and RS232 communications interface kit			
AC/DC disconnect	Standard and integrated within the inverter enclosure			
Ground fault detection/interruption	Standard and integrated within the inverter enclosure			
Sub-array combiner	Optional integrated with the inverter enclosure			
Regulatory approvals				
Safety	CSA certified to UL1741 Ed. 2, CSA 107.1-01			
Interconnect	IEEE 1547			

Specifications are subject to change without notice.*Other options available upon request.

GT500 and GT500 MVX

grid-tie solar inverters

High efficiency and reliability from a provider you can trust

Designed for large scale applications, the GT500 and GT500 MVX is a high efficient, proven high reliability inverter suitable for both utility power plants and large rooftops. The GT500 and GT500 MVX connects directly to medium voltage using a customer supplied transformer or transformer supplied by Schneider Electric, and integrates power factor control capability that can be used to either export VARs to or import VARs from the utility. This inverter incorporates an advanced Maximum Power Point Tracking (MPPT) algorithm to maximize the energy harvested from a PV array. To ensure reliability, the GT500 and GT500 MVX and its sub-components have been tested using Highly Accelerated Life Testing (HALT) and Multiple Environment Over Stress Testing (MEOST). The high reliability of the GT500 and GT500 MVX reduces system downtime and results in a higher energy production.

Why choose GT500 and GT500 MVX?



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

- Ultra-efficient design with CEC efficiency of 97%
- Reduced system costs thank to outdoor installation
- Enhanced reliability through segregation of sensitive electronics and power components



Designed for reliability

- Robust design through system level test & Temperature Humidity Bias (THB) as well as rigorous Multiple Environmental Over Stress Testing (MEOST) of major subassemblies (IGBT, Front Panel, CCU etc.)



Flexible

- PV Box solution with multiple inverters and medium voltage remote monitoring and control options
- Ontario FIT compliant available



Easy to service

- Sub-array string monitoring
- Remote monitoring and control options
- Comprehensive Schneider Electric service network to ensure rapid response when issues arise
- Alarms and troubleshooting tools allow for remote detection and analysis of issues before arriving on site



Easy to install

- Integrated ground fault detection and interruption
- Includes AC and DC disconnects
- Designed for fork lift or sling transportation
- Back and sides of unit designed for zero clearance installations to minimize inverter space requirements



GT500 MVX

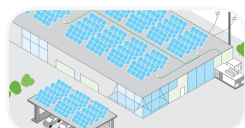


GT500

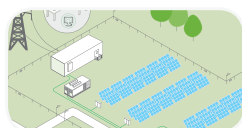
ONTARIO FIT
COMPLIANT



Product applications



Large commercial



Centralised PV plants

Device short name	GT500 480	GT500 600	GT500 MVX
Electrical specifications			
Input (DC)			
Photovoltaic power	521 kW	521 kW	521 kW
Input voltage range, MPPT	310 to 480 V	310 to 480 V	310 to 480 V
Max. input voltage, open circuit	600 V	600 V	600 V
Max. input current	1720 A	1720 A	1720 A
Max. input short circuit current	2150 A	2150 A	2850 A
DC backfeed current	0 A	0 A	0 A
Output (AC)			
Output voltage	480 V Delta	600 V Delta	208V (for direct connection to a medium voltage isolation transformer)
Frequency	60 Hz	60 Hz	60 Hz
Nominal output current	610 A	490 A	1400 A
AC current distortion	< 5% at rated power	< 5% at rated power	< 5% THD at rated power
Nominal Output power	500 kW	500 kW	500 kVA 45°C with derating to 50°C
Topology	Isolation transformer standard and integrated within the inverter enclosure (480 V and 600 V only)		
Efficiency			
Peak	96.9%	96.9	98% not including MV transformer
CEC weighted	96.0%	96.0	97% not including MV transformer
General specifications			
Power consumption, night time	336 W	336 W	< 161 W
NEMA degree of protection	Type 3R (outdoor rating)	Type 3R (outdoor rating)	Type 3R (outdoor rating)
Enclosure material	Zinc plated, highly reflective, powder coating finish		
Product weight	3103.0 kg (6840.0 lb)	3103.0 kg (6840.0 lb)	1587.0 kg (3499.0 lb)
Product dimensions (H x W x D)	224.0 x 463.8 x 108.7 cm (88.2 x 182.6 x 42.8 in)	224.0 x 463.8 x 108.7 cm (88.2 x 182.6 x 42.8 in)	224.0 x 228.6 x 126.0 cm (88.4 x 90.0 x 49.6 in)
Ambient air temperature for operation	-20°C to 50°C (-4°F to 122°F)		
Operating altitude	2000 m (6562 ft) without de-rating		
Relative humidity	0 to 95% non-condensing		
Part number	820-0076-01-01 820-0076-03-01	820-0076-02-01	820-0150-01-01 820-0150-02-01 820-0150-03-01 820-0150-04-01
Features and options			
Type of cooling	Forced convection cooling		
Display type	Standard bright fluorescent green Vacuum display		
Communication interface	RS485/Modbus communications interface kit included		
AC/DC disconnect	Standard and integrated within the inverter enclosure		
Ground fault detection/interruption	Standard and integrated within the inverter enclosure		
Sub-array combiner	Optional integrated with the inverter enclosure, 100 A 150 A or 200 A circuits		
Regulatory approvals			
Safety	CSA certified to UL1741 Ed. 2, CSA 107.1-01		
Interconnect	IEEE 1547		

Specifications are subject to change without notice.

Conext Control

String to grid monitoring and control system for PV power plants

Conext Control is the global and modular monitoring and control solution for large photovoltaic installations. It is designed to efficiently operate any site by providing site technicians the means to make prompt decisions, analyze long-term trends and manage the life cycle performance of your assets.

Conext Control also includes plant control features, enabling smooth integration of PV installations on the grid and implementation of complex grid support services

Why choose Conext Control?



True bankability

- Warranty from a trusted partner with over 177 years of experience
- World leader in automation, SCADA and process control in diverse industries
- Strong service infrastructure worldwide to support your global needs



Higher return on investment

- CAPEX and feature level adapted to any need
- Minimizes OPEX
- Improves energy harvest
- Contributes to extend equipment life duration



Designed for reliability

- Robust design through rigorous Custom Reliability Testing



Flexible

- Various features levels (Optimum+, Optimum, Essential) to meet any customer requirements
- Modular hardware and software based on standardized bricks



Easy to service

- Complete multi-site solution including data acquisition, remote control, grid interaction management, supervision, data storage and analysis



Easy to install

- Robust system made up with devices from Schneider Electric industry business, to withstand real life conditions in harsh environments



Product applications



Utility scale power plants



Large commercial rooftops

Conext Control		Optimum +	Optimum	Essential
Monitoring features				
PV Box	Inverters	•	•	•
	Transformer (fault)	•	•	•
	Transformer (pre-alarm)	•	•	
	RMU status	•	•	
	RMU protection relay	•	•	•
	LV switchboard	•	•	
	Energy reserve	• (if installed)	• (if installed)	
	Weather sensors	• (if installed)	• (if installed)	
	Safety sensors	• (if installed)	• (if installed)	
	Sub-array current acquisition		•	•
Array Box	String current acquisition	•		
	Plane-of-array pyranometer	• (if installed)		
	Back-of-module temperature	• (if installed)		
	Electrical devices status	•		
Grid Box	Grid coupling breaker status	•	•	•
	Feeder status	•	•	•
	Feeder protection relays	•	•	•
	LV switchboard	•	•	•
	Energy reserve	• (if installed)	• (if installed)	• (if installed)
	Weather station	• (if installed)	• (if installed)	• (if installed)
	Safety sensors acquisition	• (if installed)	• (if installed)	• (if installed)
Monitoring and control system	2 seconds acquisition cycle	•	•	•
	Time synchronization	•	•	•
	String failure detection	•		
	Sub-array failure detection		•	•
	1' data averaging	•	•	•
	1' data and alarm timestamping	•	•	•
	1' data and alarm storage	• (up to 40 days)	• (up to 40 days)	• (up to 40 days)
	Communications status	•	•	•
Control features				
PV Box	Inverter remote control	•	•	•
	Inverter (P, Q) fast control	• (if installed)	• (if installed)	• (if installed)
Array Box	Main switch remote control (LOTO)	• (if installed)		
Grid Box	Grid coupling breaker remote control	•	•	•
	RMU remote control	•	•	•
	Coupling / uncoupling management	•	•	•
	Grid operator interface	• (if installed)	• (if installed)	• (if installed)
	Plant controller	• (on demand)	• (on demand)	• (on demand)
Supervision and data analysis features				
Multi-site management				
Operator interface	Client server access (ViewX)	•	•	•
	Web access (WebX)	•	•	•
Real time	Predefined	•	•	•
synoptic views	Customized	• (on demand)	• (on demand)	• (on demand)
Alarming	Real time alarming	•	•	•
	Alarm filtering (root cause display)	•	•	•
Alerting	SMS or e-mail	•	•	•
Key performance	PR, AL, Energy not supplied	•	•	•
	Site scorecard	•	•	•
Reports	Predefined	•	•	•
	Customized	• (on demand)	• (on demand)	• (on demand)
Trend analysis		•	•	•
Long term storage	SQL database	• (up to 20 years)	• (up to 20 years)	• (up to 20 years)
Optional interface	OPC AE, OPC DA, HDA, OPC HDA	• (on demand)	• (on demand)	• (on demand)
Hardware configuration				
PV Box	Optimum + monitoring cabinet	•		
	Optimum monitoring cabinet		•	
	Essential monitoring cabinet			•
Grid Box	Grid Box monitoring cabinet	•	•	•
	Multi-PV Box monitoring cabinet			•
	SCADA / SQL server cabinet*	•	•	•
Software configuration				
Application software	Conext Control	•	•	•
Supervision software	Clear Scada (see table below)	•	•	•
Power plant size	Recommended reference	Part number	# of monitoring points	# of web clients
< 5 MWp	Clear Scada PV 5	TBUCEOEM-7500 PV	7500	5
5 to 10 MWp	Clear Scada PV 10	TBUCEOEM-015 KPV	15000	6
10 to 20 MWp	Clear Scada PV 20	TBUCEOEM-025 KPV	25000	8
20 to 40 MWp	Clear Scada PV 40	TBUCEOEM-050 KPV	50000	10
	Extra web client	TBUCEOEM-0001 CWC		1

Specifications are subject to change without notice. *The SCADA / SQL database may be alternatively hosted in a remote data center.

Array Box

Protect and enhance the performance of your photovoltaic installation

An Array Box is a PV string combiner box installed between the PV modules and the inverter, providing protection and performance monitoring to your PV power plant.

Why choose Array Box?



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

- Reduced CAPEX: Highly cost competitive range, offers capability to connect weather sensors
- Reduced OPEX: precise power production tracking, detection of PV modules failure and aging



Designed for reliability

- Resistant to corrosion and pollution thanks to the use of an isolating polyester enclosure reinforced with fiberglass
- Optimal cooling of the switch-disconnector and PV fuses to increase their useful life
- Undergone extensive safety, quality and reliability testing
- Robust design through rigorous Custom Reliability Testing



Flexible

- Fits every PV plant design and module technology with a range of 8/16/24 input channels and 160/300 A STC output currents
- Range available with and without monitoring of string currents
- On-field weather sensors easily connected inside the Array Box to avoid any additional equipment



Easy to service

- Conext Control™ identifies the service needs of the Array Box
- Motorized switch controlled remotely by Conext Control accelerates lock-out / tag-out procedure and allows an easy return to operation



Easy to install

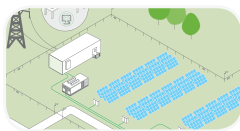
- Mounting on a support bracket or on a plinth for independence to the racking system, or hanged on the racking system for less civil work
- Capabilities to directly connect up to 2 PV string cables and 2 DC output cables per polarity



Product applications



Large commercial



Centralised PV plants

Device short name	AB08-160	AB16-160	AB16-300	AB24-300
Electrical specifications				
DC inputs				
Number of inputs	8	16	16	24
Max. voltage in open circuit	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc
Max. input current in short circuit	25 A	25 A	25 A	25 A
Max. input current in short circuit at STC	20 A	20 A	20 A	20 A
DC output				
Max. output current in short circuit at ambient temperature ≤ 40°C	200 A	200 A	375 A	375 A
at ambient temperature ≤ 45°C	180 A	200 A	350 A	350 A
at ambient temperature ≤ 50°C	160 A	200 A	315 A	315 A
Max. output current in short circuit at STC at ambient temperature ≤ 40°C	160 A	160 A	300 A	300 A
at ambient temperature ≤ 45°C	145 A	160 A	280 A	280 A
at ambient temperature ≤ 50°C	125 A	160 A	250 A	250 A
AC supply*				
Voltage at 50/60 Hz	230 V + 10 / -15%	230 V + 10 / -15%	230 V + 10 / -15%	230 V + 10 / -15%
Environmental specifications (in operation)				
Ambient temperature	-25°C to +50°C, above contact Schneider Electric	-25°C to +50°C, above contact Schneider Electric	-25°C to +50°C, above contact Schneider Electric	-25°C to +50°C, above contact Schneider Electric
Relative humidity	0 to 100% condensing	0 to 100% condensing	0 to 100% condensing	0 to 100% condensing
Altitude	0 to 2000 m without derating	0 to 2000 m without derating	0 to 2000 m without derating	0 to 2000 m without derating
Mechanical specifications				
Enclosure				
Type	Outdoor use, full insulating cabinet (polyester reinforced with fiberglass)			
Fire withstand	Self-extinguishing (does not propagate fire during the glow-wire test at 960 °C), halogen-free			
Color	RAL 7032, grey	RAL 7032, grey	RAL 7032, grey	RAL 7032, grey
Product				
Dimensions (H x W x D)	84.7 x 63.6 x 30.0 cm (33.3 x 25.0 x 11.8 in)	105.6 x 85.2 x 35.0 cm (41.6 x 33.5 x 13.8 in)	105.6 x 85.2 x 35.0 cm (41.6 x 33.5 x 13.8 in)	105.6 x 85.2 x 35.0 cm (41.6 x 33.5 x 13.8 in)
Weight (essential / monitored / controlled)	33.0 / 37.0 / 40.0 kg (72.8 / 81.6 / 88.1 lb)	58.0 / 62.0 / 65.0 kg (127.9 / 136.7 / 143.3 lb)	63.0 / 67.0 / 71.0 kg (138.9 / 147.7 / 156.5 lb)	67.0 / 71.0 / 75.0 kg (147.7 / 156.5 / 165.3 lb)
Mounting	Floor-standing on support, wall-fixing or hanging with lugs (must be installed protected from direct sunshine)			
Degrees of protection	IP54 (IP55 with optional covers), IK10			
Features				
Protection				
DC inputs overcurrent protection	Protection on both polarities, gPV fuses, size 10 x 38 (fuses not provided with product)			
DC overvoltage protection	Surge arrester, 1000 Vdc, type 2, I _{max} 40 KA			
AC supply overvoltage protection*	Surge arrester, 230 Vac, type 2, I _{max} 40 KA			
Electric shock protection	Class II equipment			
Monitoring and control*				
DC input currents*	0 to 30 A, accuracy +/- 0.5% full scale (one measurement per input)			
DC voltage*	0 to 1000 V, accuracy +/- 0.5%			
Internal temperature*	-30 to +120°C, accuracy +/- 1°C			
Temperature sensor input**	-30 to +120°C, accuracy +/- 1°C, for external PT1000 2 wires temperature sensor			
2 x irradiance sensor inputs**	0 to 1600 W/m², accuracy +/- 0.5% full scale, for external 4-20 mA irradiance sensor			
Communication*	Profibus DP, RS485 link			
Switch disconnector remote control***	Motor pack and MX shunt release			
Compliance				
LV switchgear	IEC / EN 61439-1 and 61439-2			
CE marking	According LV directive 2006 / 95 / CE and EMC directive 2004 / 108 / CE			
Available models				
Essential: protection only	PVSAB31101	PVSAB31201	PVSAB31301	PVSAB31401
Monitored: protection and monitoring	PVSAB31111	PVSAB31211	PVSAB31311	PVSAB31411
Controlled: Protection, monitoring and switch control	PVSAB31121	PVSAB31221	PVSAB31321	PVSAB31421
Optional weather module*	PVSAB31021	PVSAB31021	PVSAB31021	PVSAB31021
Accessories				
Support bracket for roof-mounting	Product no. NSYCOCNS1400 Product no. NSYCOCNS1800 see page 33 for more details			
Support bracket for ground-mounting	Product no. NSYCOCNS1800 SPECIAL see page 33 for more details			
Plinth for ground-mounting	For AB31-08 models product no. NSYZM263 For AB31-16/24 models product no. NSYZM283 see page 33 for more details			
Sealing cover IP55	Product no. NSYCAP125LZF see page 33 for more details			
Set of 4 x lugs for wall-mounting	Product no. NSYPFPLM see page 33 for more details			
Set of 4 x feet for ground-mounting with plinths	Product no. NSYAEBFZ see page 33 for more details			

Specifications are subject to change without notice. *For monitored and controlled models. ** With optional weather sensors connection module. ***For controlled models.

MV/LV offer (CE compliant)



RM6

The RM6 is a compact, self-contained totally insulated switchgear that comprises 1 to 4 integrated, low dimension functional units. It enables the connection, supply and protection of transformers on an open ring or radial network. Available up to 24 kV.



SM6

The SM6 is a modular, comprehensive range of metal-enclosed switchgear and control gear units up to 24 kV. SM6 units are used for the MV section in MV/LV transformer substations in public distribution systems and MV consumer or distribution substations up to 36 kV.



Flusarc 36

The Flusarc 36 is a medium voltage switchgear, suitable for 36 kV rated voltage and specifically conceived for the secondary distribution substations in MV with either ring or radial type networks. With its flexibility and low operating cost, is the ideal choice for utilities all over the world, in every environment.



Minera HE

Ultra high efficiency amorphous distribution transformers up to 1250 kVA and 36 kV, 50 / 60 Hz.



Minera PV

High efficiency oil immersed transformer for photovoltaic systems up to 1600 kVA and 36 kV, 50 / 60 Hz.

MV/LV offer (UL and IEEE compliant)



Solar disconnect switch

The 1000 Vdc disconnect switch functions as a local disconnect for a string of PV panels and is IEC 60947 and UL compliant for use in photovoltaic systems at a maximum of 1000 Vdc. This compact disconnect is available in both 100 and 200 amp, three-pole and four-pole versions.



Heavy duty safety switches (fusible and non-fusible) on direct current and photovoltaic systems

Schneider Electric provides a solar disconnect switch solution encompassing all of the quality, durability and ease of use for photovoltaic applications. The product offering spans 30 – 100 A, 2- and 3-pole fusible and non-fusible heavy duty safety switches. All Square D® brand heavy duty safety switches with dc ratings (2- and 3-pole fusible and non-fusible) are Underwriters Laboratories® (UL®) Listed for use on DC applications when properly wired.



PowerLogic metering

Schneider Electric offers a full portfolio of metering and monitoring products and solutions, scalable from simple metering and analysis to remote, online enterprise wide power management solutions. Whether you are an energy supplier, or consumer, our integrated solutions provide the tools to deliver fast and quantifiable payback by helping you to manage the quality and cost of your energy.



Padmount liquid transformers

Square D three-phase, pad-mounted liquid-filled transformers, for use on underground power distribution systems, meet modern design requirements for flexibility, and provide a low profile, visually pleasing installation. Construction allows installation in locations accessible to the general public without the need for protective fencing or vaults.

Accessories for the Array Box



Support bracket for roof-mounting and ground-mounting

(For roof-mounting NSYCOCONS1400, NSYCOCONS1800, for ground-mounting NSYCOCONS1800 SPECIAL)

Support bracket with anti-tilt kit. In roof-mounting, it can be used when the Array Box cannot be hung from a wall or a post. In ground-mounting, it can be partially buried and it is an alternative to the use of plinths.



Plinth for ground-mounting

(NSYZM263 for AB31-08 models, NSYZM283 for AB31-16/24 models)

Support for Array Box in polyester material reinforced with fiberglass. Plinth height of 200 mm stackable to obtain a 400-mm plinth.

The frontal parts of the plinth can be opened and removed for easier cable installation. In stacked position, the bottom plinth can be partially buried.



Sealing cover IP55

(NSYCAP125LZF)

Protection of a ventilation grille from any direct spray. It provides an efficient air flow for cooling and a true IP 55 rating. The cover is placed over the grille with a filter located at the bottom of the cover to prevent the entry of particles.



Set of 4 x lugs for wall-mounting

(NSYPFPLM)

Set of four lugs delivered with fixings, in polyamide reinforced with fiberglass, for fixing Array Box by the front face.



Set of 4 x feet for ground-mounting with plinths

(NSYAEBFZ)

Set of four feet with a standard length of 750 mm to be attached to one plinth and allowing to partially bury the plinth before completion of the floor. Possibility of horizontal adjustment of the plinth.

Grid-tie residential, commercial
buildings, carports and
decentralised power plants

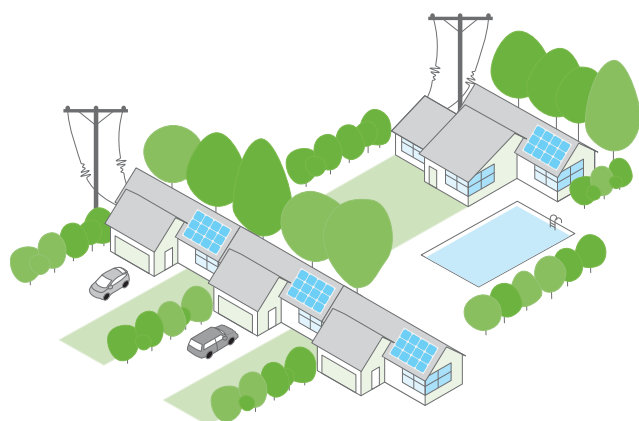


Grenoble (France)

Grid-tie residential and commercial building solutions

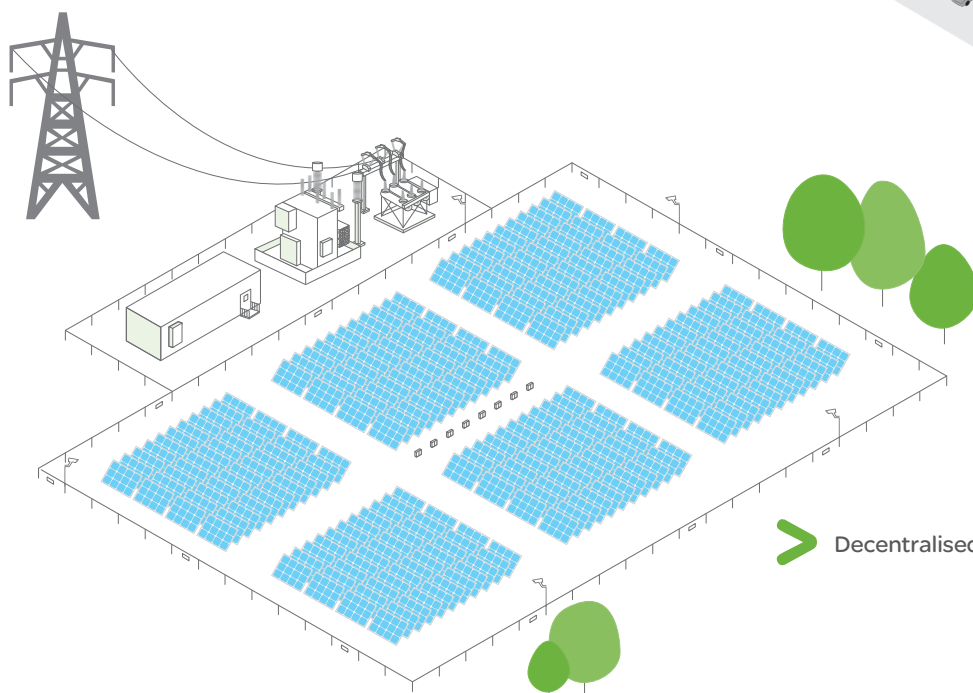
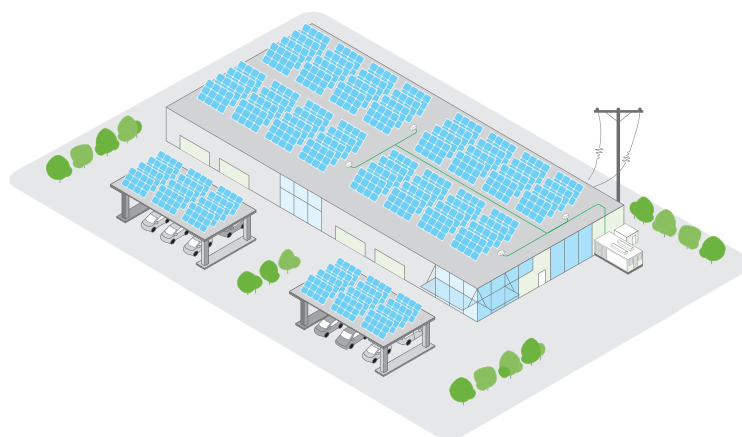
For any solar application, it's critical that the solution be flexible enough to meet your needs, and deliver the greatest possible return on investment.

That's why Schneider Electric offers a complete portfolio of reliable, easy-to-install grid-tie residential and commercial building products, backed by our global service infrastructure and expertise in energy management – all from a bankable partner that you can trust.



> Residential buildings

> Commercial buildings and carports

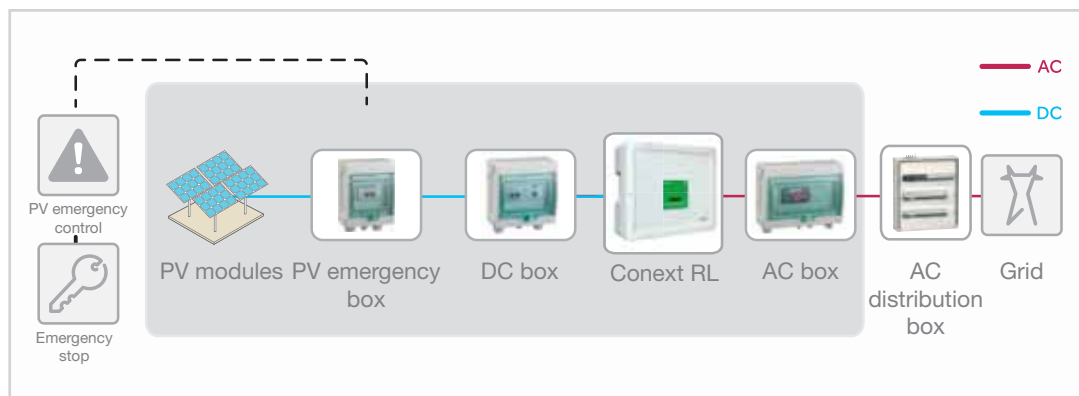


> Decentralised PV plants

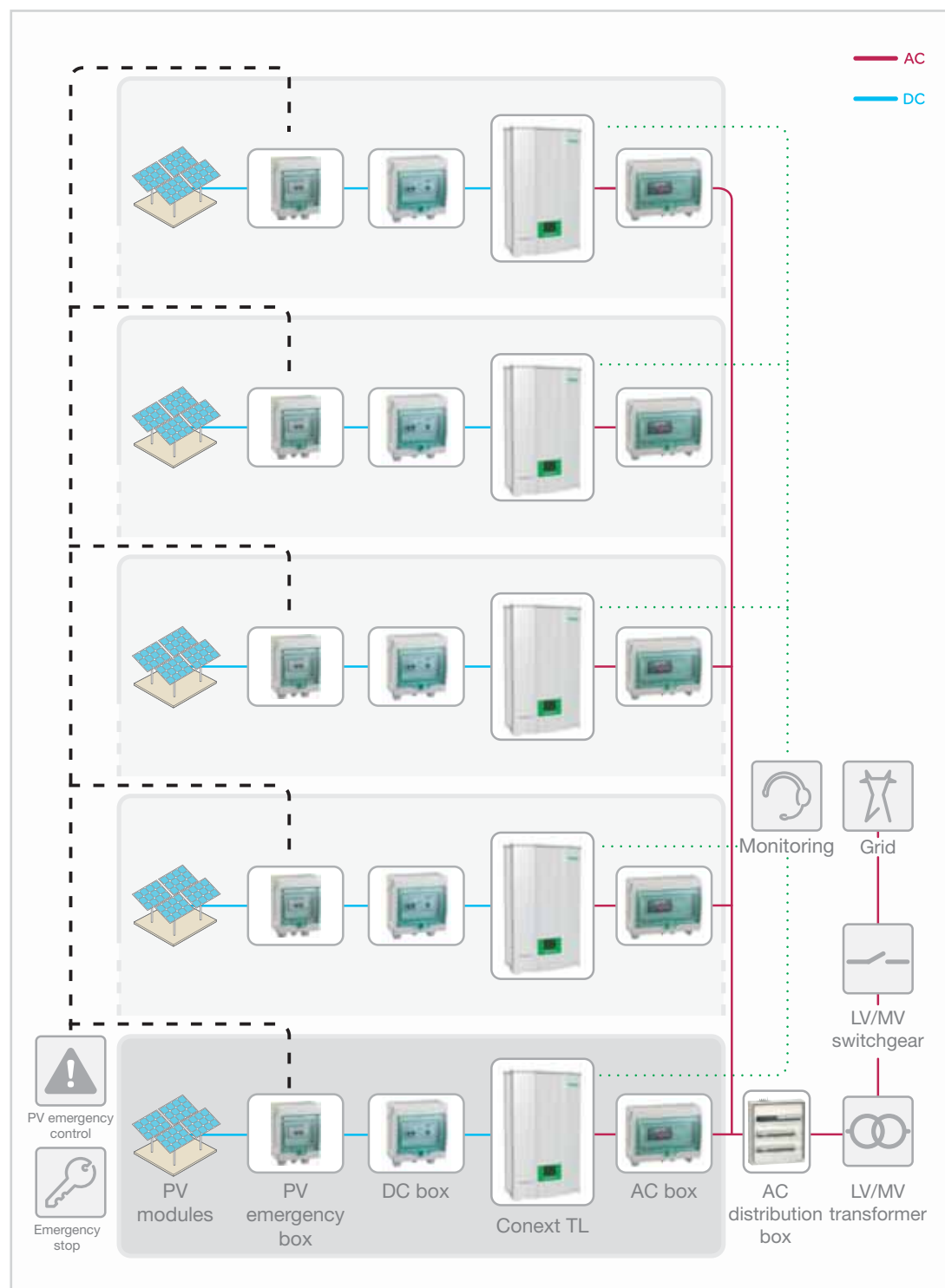
Designing your solar solution

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



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)



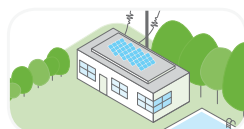
Easy to install

- 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

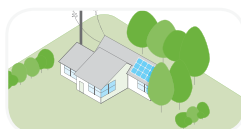
Product applications



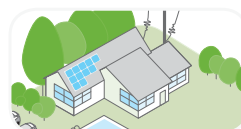
Flat roofs



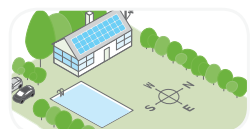
Multiple pitched roofs



Partial shading



Odd number of modules



Different orientation roofs
(East – West)

* 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 TX grid tie solar inverter

Easy to install inverter with MPP tracking for shaded arrays

Offering easy installation, high performance, clean aesthetics and innovative features, the Conext TX provides great value in a compact high-frequency design. The Conext™ TX may be installed as a single inverter for a single PV array or in a multiple inverter configuration for large PV systems or three-phase applications.

Why choose Conext TX?



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

- Flexibility in system to cover full-sun and shaded situations plus high conversion efficiency maximizes return on investment



Designed for reliability

- Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST) and Temperature Humidity Bias (THB)



Flexible

- Wide MPPT range with Fast Sweep™ MPP tracking for increased array design flexibility
- Passive cooling, no clearance required between units, requires less wall space
- Appropriate for outdoor installations (3R)



Easy to service

- Integrated with Square D AC/DC disconnect
- Sealed inverter enclosure can be separated from wiring box allowing AC and DC connections to remain on the wall
- Replacement inverter can easily be re-installed



Easy to install

- Easy access to DC (PV) and AC (Utility) connectors
- Terminals use no hardware, no screws
- Easily wall mounted using included bracket
- Integrated 600 V Square D AC/DC disconnect switch
- Slim product design – 7.5" depth and 16" width
- Simple communications set up when daisy chaining



Available in 2.8, 3.3, 3.8 and 5.0 kW

Product applications



Residential



Small commercial

Device short name	TX 2800 NA	TX 3300 NA	TX 3800 NA	TX 5000 NA
Electrical specifications				
Input (DC)				
Input voltage range, MPPT (CEC & CSA)	195 to 550 V	195 to 550 V	195 to 550 V	240 to 550 V
Number of MPPT	1	1	1	1
Max. input voltage, open circuit	600 V	600 V	600 V	600 V
Max. input current	15.5 A / 14.9 A	18.0 A / 17.5 A	20.8 A / 19.5 A	22.5 A / 20.5 A
Max. input short circuit current	24 A	24 A	24 A	24 A
Reverse polarity protection	Short-circuit diode	Short-circuit diode	Short-circuit diode	Short-circuit diode
Ground fault protection	GF detection, IDIF > 1 A	GF detection, IDIF > 1 A	GF detection, IDIF > 1 A	GF detection, IDIF > 1 A
Output (AC)				
Number of phases	1	1	1	1
Nominal output power	2.8 kW / 2.65 kW	3.3 kW / 3.1 kW	3.80 kW / 3.5 kW	5.0 kW / 4.5 kW
Output voltage (Auto-Detect)	240 V / 208 V single-phase	240 V / 208 V single-phase	240 V / 208 V single-phase	240 V / 208 V single-phase
AC voltage range	212 to 263 V (240 V grid connection), 184 to 228 V (208 V grid connection)	212 to 263 V (240 V grid connection), 184 to 228 V (208 V grid connection)	212 to 263 V (240 V grid connection), 184 to 228 V (208 V grid connection)	212 to 263 V (240 V grid connection), 184 to 228 V (208 V grid connection)
Frequency	60 Hz	60 Hz	60 Hz	60 Hz
Output current	11.8 A / 13 A	14 A / 15.2 A	16 A / 16.8 A	21 A / 22 A
Overcurrent protection	15 A	20 A	25 A	30 A
Power factor	> 0.99 (at rated power), > 0.95 (full power range)			
Harmonic distortion	< 5%	< 5%	< 5%	< 3%
Topology	Transformer, isolated	Transformer, isolated	Transformer, isolated	Transformer, isolated
Efficiency				
Maximum	95.2% / 95.2%	95.6% / 95.3%	96.3% / 96.0%	96.7% / 96.4%
CEC weighted	94.5% / 94.5%	95.0% / 94.5%	95.5% / 95.5%	96.0% / 95.5%
General specifications				
Power consumption, night time	1.3 W	1.3 W	1.3 W	1.3 W
NEMA degree of protection	Type 3R (outdoor rating)	Type 3R (outdoor rating)	Type 3R (outdoor rating)	Type 3R (outdoor rating)
Product weight	31.8 kg (70.1 lb)	32.2 kg (71.0 lb)	36.5 kg (80.5 lb)	38.9 kg (85.8 lb)
Product dimensions (H x W x D)	89.3 x 40.3 x 18.5 cm (35.2 x 15.9 x 7.3 in)	88.8 x 40.3 x 18.5 cm (35.0 x 15.9 x 7.3 in)	98.8 x 40.3 x 18.5 cm (38.9 x 15.9 x 7.3 in)	98.8 x 40.3 x 18.5 cm (38.9 x 15.9 x 7.3 in)
Shipping dimensions (H x W x D)	107.0 x 57.7 x 26.0 cm (42.0 x 22.7 x 10.2 in)	106.5 x 57.7 x 26.0 cm (42.0 x 22.7 x 10.2 in)	116.5 x 57.7 x 26.0 cm (46.0 x 22.7 x 10.2 in)	116.5 x 57.7 x 26.0 cm (46.0 x 22.7 x 10.2 in)
Device mounting	Wall mount (mounting bracket included)			
Ambient air temperature for operation*	-25°C to 65°C (-13°F to 149°F)	-25°C to 65°C (-13°F to 149°F)	-25°C to 65°C (-13°F to 149°F)	-25°C to 65°C (-13°F to 149°F)
Features and options				
Type of cooling	Natural convection			
Display type	LCD, 2 lines 16 digits provides instantaneous power, daily and lifetime energy production, PV array voltage and current, utility voltage and frequency, time online "selling", faults messages, and installer-customizable screens			
Communication interface	Integrated RS232 and Xanbus™ RJ45 communication ports			
Input and output terminal	AC and DC terminals accepts wires sizes of #14 to #6 AWG			
PV / Utility disconnect	Eliminates need for external PV (DC) disconnect. Complies with NEC requirements			
Wiring box	PV, utility, ground, and communications connections. The inverter can be separated from the wiring box			
Warranty	Ten-year standard			
Regulatory approvals				
CSA Certified to UL1741 2nd Edition: inverters, converters, controllers and interconnection system equipment for use with distributed energy resources; and CSA C22.2 No.107-1-01 general use power supplies, FCC Class B.				
Utility monitoring, islanding protection	UL1741-2010. Ed.2 / IEEE1547, 1547.1			
Available product variants				
Standard (negative ground)	878-2801	878-3301	878-3801	878-5001
Optional accessories				
ComBox	Product no.865-1058 see page 72 for more details			

Specifications are subject to change without notice. NA = North America. *Above 40°C unit derates.

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 MPP (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



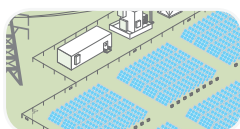
Available in
15 and 20 kW

Available in
8 and 10 kW

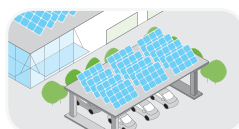
Product applications



Commercial buildings



Decentralised PV plants



Carports

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

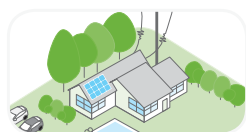


Easy to install

- Compact unit that is very easy to mount
- Configuration software included for installation assistance
- Simple registration process for web portal



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 65°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, see page 44 for more details
Conext RL	RL 3000 E product no. PVSNVC3000 / PVSNVC3000S, RL 4000 E product no. PVSNVC4000 / PVSNVC4000S, RL 5000 E product no. PVSNVC5000 / PVSNVC5000S, see page 40 for more details

Specifications are subject to change without notice.

System accessories



PV emergency stop

- Isolation from the AC source at the combiner box level
- Isolation from the DC source at the DC box level (at the location farther upstream if both)



DC Box

- Disconnects each MPPT input of the inverter from the DC line
- Protects the inverter against voltage surges coming from DC lines
- Controls the release of the switches remotely for emergency purpose



AC Box

- Disconnects inverter from the AC line
- Protects the inverter against voltage surges coming from AC lines



To order a solution tailored to your plant design and local regulatory requirements, please contact your local country representative



Uta (Italy)

Off-grid solar and backup power solutions



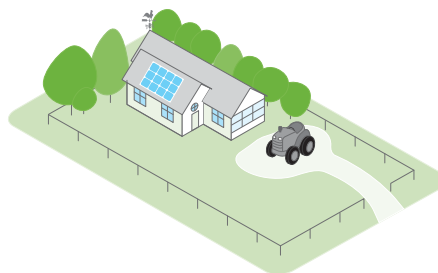
Refuge du Goûter (France)

Off-grid solar and backup power

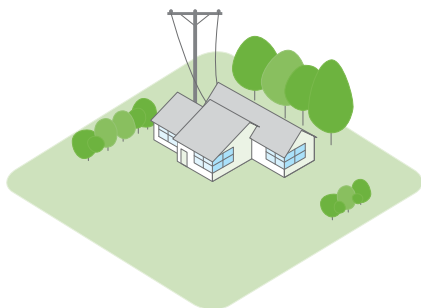
Powering locations not connected to the grid, or those connected to the grid and needing backup power or solar for energy storage and self-consumption, has never been easier with proven solutions from Schneider Electric. Our off-grid and backup power inverter/chargers are reliable, quick to install, adaptable and scalable providing the right solution for powering remote or city residences, farms, rural workshops, off-grid communities and telecom base transceiver stations. Advanced controls for grid-interaction, custom battery settings, charger controls, and hybrid generator systems are fundamental to many of our models reducing consumption of utility or generator power.



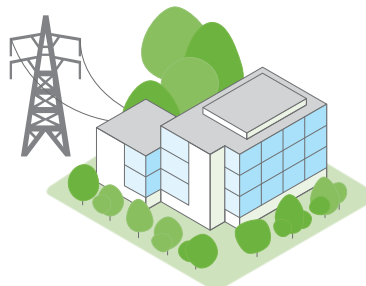
> Residential off-grid solar



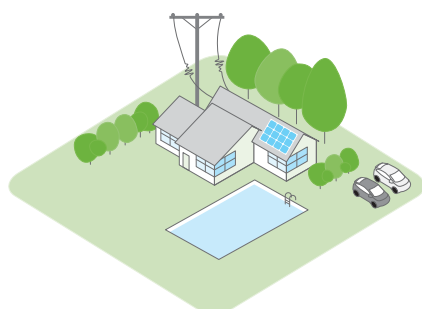
> Commercial off-grid solar



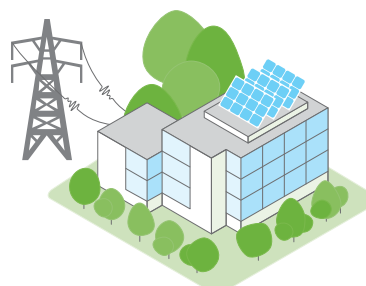
> Residential backup power



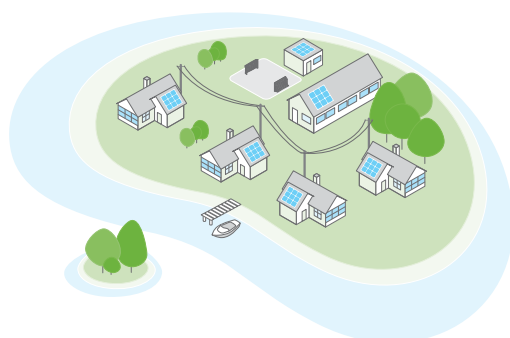
> Commercial backup power



> Residential grid-interactive solar with battery backup



> Commercial grid-interactive solar with battery backup

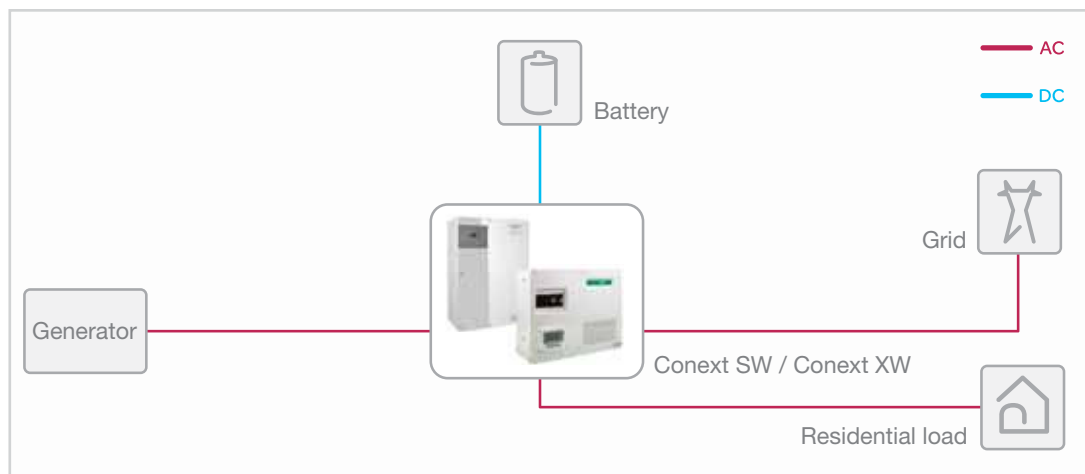


> Remote community electrification

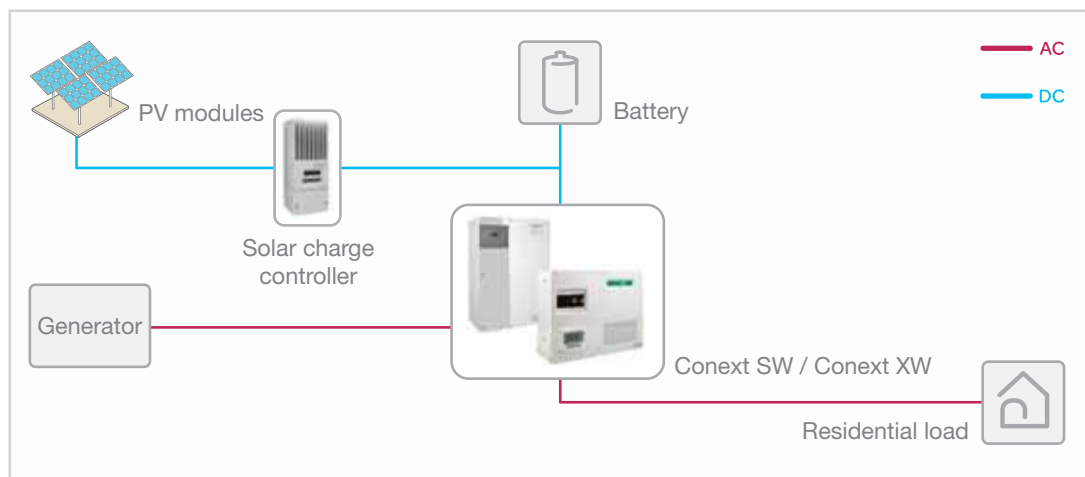
Designing your solar solution

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.

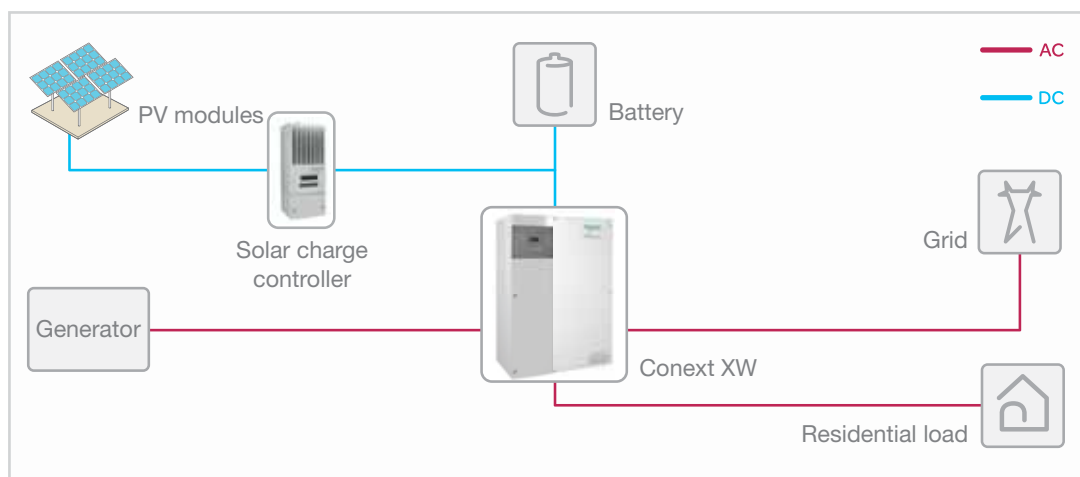
> Residential backup power solutions using Conext SW or Conext XW



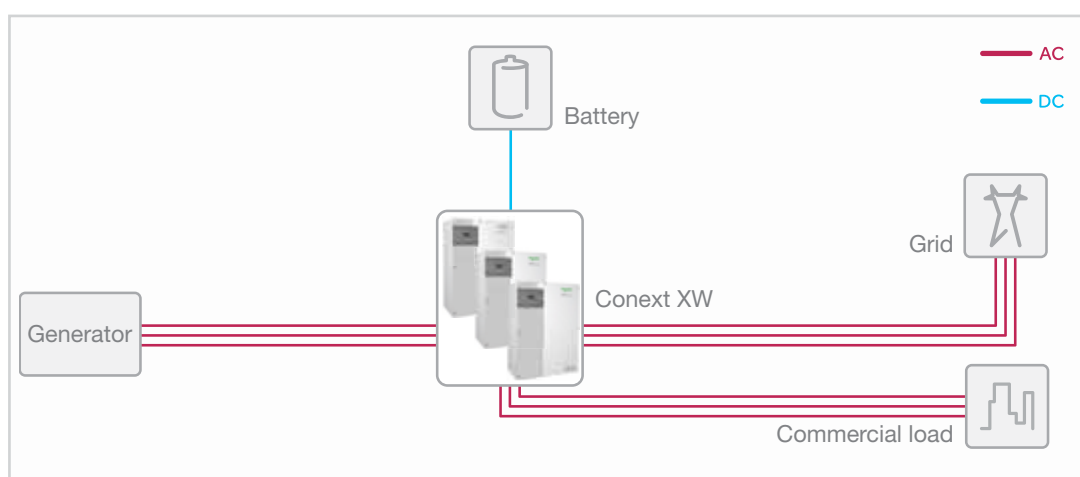
> Residential off-grid solutions using Conext SW or Conext XW



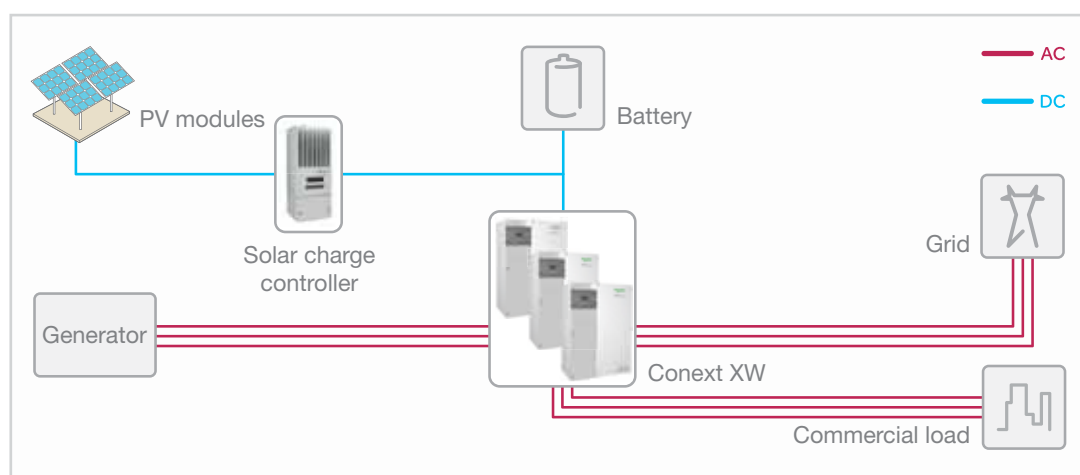
> Residential grid-interactive solar with backup solutions using Conext XW



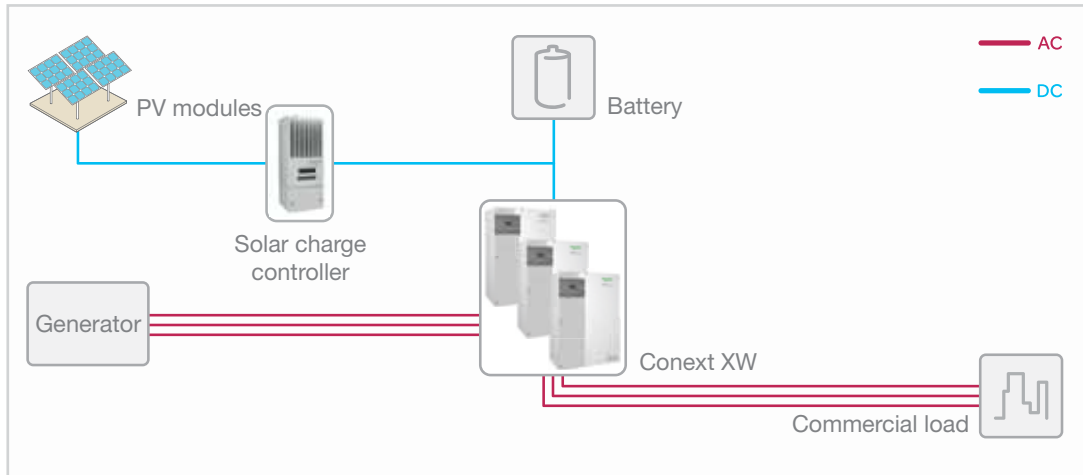
> Commercial backup power solutions using Conext XW



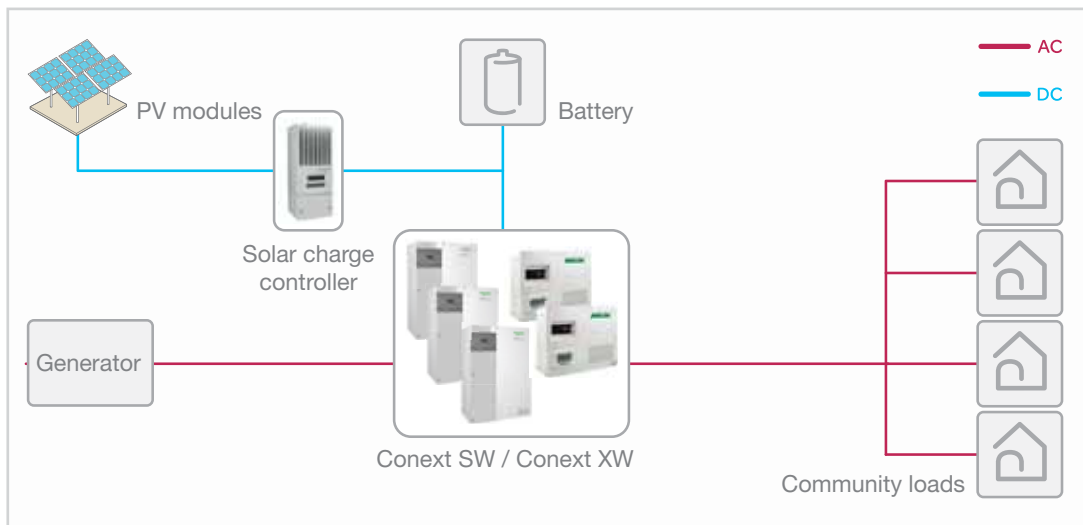
> Commercial grid-interactive solar with battery backup solutions using Conext XW



> 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



Residential backup power



Off-grid solar



Community electrification

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 see page 75 for more details			
AC breaker panel (120/240 V)	865-1017 see page 75 for more details			
AC breaker panel (230 V)	865-1017-61 see page 75 for more details			
System Control Panel (SCP)	865-1050 see page 74 for more details			
Automatic Generator Start (AGS)	865-1060 see page 74 for more details			
Conext ComBox	865-1058 see page 72 for more details			
MPPT 60 150 solar charge controller	865-1030-1 see page 66 for more details			

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



Residential, backup power and grid-tie



Off-grid solar



Community electrification



Small commercial, backup power and grid-tie

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 see page 74 for more details		
XW Conection Kit (CK)	Product no. 865-1020 see page 74 for more details		
System Control Panel (SCP)	Product no. 865-1050 see page 74 for more details		
Automatic Generator Start (AGS)	Product no. 865-1060 see page 74 for more details		
MPPT 60 150 solar charge controller	Product no. 865-1030-1 see page 66 for more details		
MPPT 80 600 solar charge controller	Product no. 865-1032 see page 64 for more details		
XW Configuration Tool (CT)	Product no. 865-1155 see page 74 for more details		
Conext ComBox	Product no. 865-1058 see page 72 for more details		

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



Residential, backup power and grid-tie



Off-grid solar



Community electrification



Small commercial, backup power and grid-tie

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 see page 74 for more details		
XW Conection Kit (CK)	Product no. 865-1020 see page 74 for more details		
System Control Panel (SCP)	Product no. 865-1050 see page 74 for more details		
Automatic Generator Start (AGS)	Product no. 865-1060 see page 74 for more details		
MPPT 60 150 solar charge controller	Product no. 865-1030-1 see page 66 for more details		
MPPT 80 600 solar charge controller	Product no. 865-1032 see page 64 for more details		
XW Configuration Tool (CT)	Product no. 865-1155 see page 74 for more details		
Conext ComBox	Product no. 865-1058 see paze 72 for more details		

Specifications are subject to change without notice.

MPPT 80 600 solar charge controller

Install for less, harvest more energy

The MPPT 80 600 Solar Charge Controller offers an industry-first set of integration features and top performance that allows for large PV array systems to be easily installed and connected to the battery bank at the lowest overall cost. Installing one MPPT 80 600 is faster than installing multiple smaller charge controllers and lowers overall costs further by utilizing fewer PV strings, smaller wiring and conduit, and by eliminating the need for PV combiner boxes and DC circuit breakers. Longer distances from array site to battery bank are also easier to accommodate than with smaller charge controllers. Advanced Fast Sweep™ MPPT charging technology helps harvest the most energy available from the PV array, even in partial shade conditions. 80 A of battery charge current allows for the connection of PV arrays rated up to 600 V STC (2560 W for 24 V systems, 4800 W for 48 V systems).

Why choose MPPT 80 600?



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

- Installs faster with fewer costly components
- Improve battery life with selectable multi-stage temperature compensated charging
- Harvest more energy with shade tolerant fast sweep MPPT algorithm



Designed for reliability

- Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST)



Flexible

- Available remote monitoring and configuration
- Compatible with any brand of PV module, any grounding method
- Stand-alone application or full integration with Conext XW inverter charger system



Easy to install

- Fewer string wires
- Smaller AWG Wire
- No need for combiner box or GFI circuit breaker



Product applications



Residential, backup power and grid-tie



Small commercial, backup power and grid-tie



Off-grid solar



Community electrification

Device short name	MPPT 80 600
Electrical specifications	
Nominal battery voltage	24 and 48 V (Default is 48 V)
Max. PV array voltage (operating)	195 to 550 V
Max. PV array open circuit voltage	600 V including temperature correction factor
Battery voltage operating range	16 to 67 VDC
Array short-circuit current	35 A (28 A @ STC)
Max. charge current	80 A
Max. and min. wire size in conduit	#6 AWG to #14 AWG (13.5 to 2.5 mm ²)
Max. output power	2560 W (nominal 24 V), 4800 W (nominal 48 V)
Charger regulation method	Three-stage (bulk, absorption, float) plus manual equalization Two-stage (bulk, absorption) plus manual equalization
Supported battery types	Flooded, GEL, AGM, Custom
Efficiency	
Max. power conversion efficiency	94% (nominal 24V), 96% (nominal 48V)
General specifications	
Power consumption, night time	< 1 W
Battery temperature sensor	Included
Auxiliary output	Dry contact switching up to 60VDC, 30VAC, 8A
Enclosure material	Indoor, ventilated, aluminum sheet metal chassis with 22.22 mm and 27.76 mm (7/8 in and 1 in) knockouts and aluminum heat sink
IP degree of protection	IP20
Product weight	13.5 kg (29.8 lb)
Shipping weight	17.4 kg (38.3 lb)
Product dimensions (H x W x D)	76.0 x 22.0 x 22.0 cm (30.0 x 8.6 x 8.6 in)
Shipping dimensions (H x W x D)	87.0 x 33.0 x 27.0 cm (34.3 x 13.0 x 10.6 in)
Device mounting	Vertical wall mount
Ambient air temperature for operation	-20°C to 65°C (-4°F to 149°F), power derating above 45°C
Storage temperature range	-40°C to 85°C (-40°F to 185°F)
Operating altitude	Sea level to 2000 m (6562 ft)
System network and remote monitoring	Available
Warranty	Five-year standard
Part number	865-1032
Regulatory approval	
Safety	CSA Certified (UL1741, CSA 107.1) and CE Marked for the Low Voltage Directive (EN50178)
EMC	FCC and Industry Canada (Class B), CE Marked for the EMC Directive (EN61000-6-1, -6-3), C-Tick compliant
Accessories	
Conext XW inverter/charger (230 V / 50 Hz)	XW 4024 product no. 865-1045-61 XW 6048 product no. 865-1035-61 see page 60 for more details
Conext XW inverter/charger (120 / 240 V / 60 Hz)	XW 4024 product no. 865-1010 XW 6048 product no. 865-1000-01 see page 62 for more details
Conext SW inverter / charger (120 V)	SW 2524 product no. 865-2524 SW 4024 product no. 865-3524 see page 58 for more details
Conext SW inverter / charger (230 V)	SW 2524 product no. 865-2524-61 SW 4024 product no. 865-3524-61 see page 58 for more details
System Control Panel (SCP)	Product no. 865-1050 see page 74 for more details
Automatic Generator Start (AGS)	Product no. 865-1060 see page 74 for more details
Conext ComBox	Product no. 865-1058 see page 72 for more details

Specifications are subject to change without notice.

MPPT 60 150 solar charge controller

MPPT multi-stage charging, better battery life

The MPPT 60 150 is a photovoltaic (PV) charge controller that tracks the maximum power point of a PV array to deliver the maximum available current for charging batteries. When charging, the MPPT 60 150 regulates battery voltage and output current based on the amount of energy available from the PV array and state-of-charge of the battery.

Why choose MPPT 60 150?



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

- Maximum Power Point Tracking (MPPT) algorithm continually seeks the maximum power available from the PV array
- Improve battery life with selectable multi-stage temperature compensated charging
- Five-year standard warranty



Flexible

- Stand-alone application or full integration with Conext XW and Conext SW inverter charger system
- Compatible with any brand of PV Module
- Available remote monitoring and configuration



Easy to install

- Configurable auxiliary output
- LCD screen with face plate buttons for configuration and system monitoring
- Integrated PV ground fault protection for negative grounded arrays



Product applications



Residential, backup power and grid-tie



Off-grid solar



Community electrification

Device short name	MPPT 60 150
Electrical specifications	
Nominal battery voltage	12, 24, 36, 48, 60 V
Battery voltage operating range	0 Vdc to 80 Vdc
Max. PV array voltage (operating)	140 V
Max. PV array open circuit voltage	150 V including temperature correction factor
Max. array short-circuit current	60 A (48 A @ STC)
Max. charge current	60 A (for all battery voltages except 60 V)
Max. and min. wire size in conduit	#6 AWG to #14 AWG (10 to 2.5 mm ²)
Max. output power	3500 W
Charger regulation method	Three-stage (bulk, absorption, float) plus manual equalization Two-stage (bulk, absorption) plus manual equalization
Supported battery types	Flooded, GEL, AGM, Custom
Efficiency	
Max. power conversion efficiency	93% (nominal 12 V), 96% (nominal 24 V), 97% (nominal 36 V), 98% (nominal 48 V), 99% (nominal 60 V)
General specifications	
Power consumption, night time	2.5 W
Battery temperature sensor	Included
Auxiliary output	5 - 13 V, up to 200 mA
Enclosure material	Indoor, ventilated, sheet metal chassis with 2.2 cm and 2.8 cm (7/8 in and 1 in) knockouts and aluminium heat-sink
IP degree of protection	IP20
Product weight	4.8 kg (10.8 lb)
Shipping weight	8.0 kg (17.6 lb)
Product dimensions (H x W x D)	36.8 x 14.6 x 13.8 cm (14.5 x 5.8 x 5.5 in)
Shipping dimensions (H x W x D)	48.3 x 22.9 x 35 cm (19.0 x 9.0 x 9.8 in)
Device mounting	Vertical wall mount
Ambient air temperature for operation	-20°C to 45°C (-4°F to 113°F)
Storage temperature range	-40°C to 85°C (-40°F to 185°F) full power, power derating above 45°C
Operating altitude	Sea level to 2000 m (6562 ft)
System network and remote monitoring	Available
Warranty	Five-year standard
Part number	865-1030-1
Features	
Display type	LCD, 2 lines 16 digits
Regulatory approval	
Safety	CSA Certified (UL1741, CSA 107.1) and CE Marked for the Low Voltage Directive (EN50178)
EMC	FCC and Industry Canada (Class B), CE Marked for the EMC Directive (EN61000-6-1, -6-3), C-Tick compliant
Accessories	
Conext XW inverter/charger (230 V / 50 Hz)	XW 4024 product no. 865-1045-61 XW 6048 product no. 865-1035-61 see page 60 for more details
Conext XW inverter/charger (120 / 240 V / 60 Hz)	XW 4024 product no. 865-1010 XW 6048 product no. 865-1000-01 see page 62 for more details
Conext SW inverter / charger (120 V)	SW 2524 product no. 865-2524 SW 4024 product no. 865-3524 see page 58 for more details
Conext SW inverter / charger (230 V)	SW 2524 product no. 865-2524-61 SW 4024 product no. 865-3524-61 see page 58 for more details
System Control Panel (SCP)	Product no. 865-1050 see page 74 for more details
Automatic Generator Start (AGS)	Product no. 865-1060 see page 74 for more details
Conext ComBox	Product no. 865-1058 see page 72 for more details

Specifications are subject to change without notice.

C12 PWM charge controller

PV charge, lighting and load controller

The C12 charge, lighting, or load controller is uniquely sophisticated. As a charge controller, it features three-stage charging, user definable voltage parameters, and automatic equalization. Standard in the C12's load control circuitry are field adjustable low voltage disconnect and reconnect points, along with a five minute low battery disconnect warning. The C12 also functions as a lighting controller. Lighting run time is adjustable from two to eight hours or can be set from dusk to dawn operation. It is used worldwide in a variety of applications, including remote village lighting systems and automatic outdoor lighting. An optional battery temperature sensor ensures precise battery charging regardless of battery temperature fluctuations.

Why choose C12 PWM?



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

- Improve battery life with pulse width modulated (PWM) multi-stage temperature compensated charging
- Two-year standard warranty



Flexible

- PV charge and load controller
- Automatic lighting controller



Easy to service

- Electronic protection against short-circuit, overload, over- temperature and reverse polarity conditions
- Tolerance to hostile environments with conformal-coated boards and powder-coated enclosure



Easy to install

- Field adjustable voltage and battery set points
- Automatically disconnects from the battery at night
- Compatible with negative ground and ungrounded systems



Product applications



Residential, backup power and grid-tie



Off-grid solar



Community electrification

Device short name	C12
Electrical specifications	
Rated PV current	12 A at 12 V only
Max. DC load	12 A with auto reset
Min. operating voltage	6 V
Max. PV open circuit array voltage	25 V
Max. voltage drop (PV to battery)	0.3 V
Max. voltage drop (battery to DC load)	0.5 V
Regulation setting	13 to 15 V
Equalize setting	Bulk plus 1 volt for two hours
Max. stranded wire size	#10 AWG stranded (5.2 mm ²)
Typical consumption while charging	0.007 A
Typical consumption with load disconnected	0.003 A
General specifications	
Power consumption, night time	0.003 A
Enclosure material	Powder coated steel with strain relief for wiring and knockouts for up to 3.5 in conduits
Product weight	0.9 kg (2.0 lb)
Shipping weight	1.1 kg (2.5 lb)
Product dimensions (H x W x D)	16.5 x 11.0 x 4.0 cm (6.5 x 4.3 x 1.6 in)
Shipping dimensions (H x W x D)	20.3 x 11.7 x 4.0 cm (8.0 x 4.6 x 1.6 in)
Device mounting	Vertical wall mount – indoor only
Ambient air temperature for operation	0°C to 40°C (32°F to 104°F)
Warranty	Two-year standard
Part number	C12 – charge controller
Features	
Regulation method	Standard – three-stage (bulk, absorption, and float), solid state, pulse width modulation
Field adjustable control setpoints	Standard – removable knobs and calibrated scales
Setting protection	Standard – knobs can be removed to prevent tampering
Testpoints	Standard – provided for each setting
Automatic equalization	Standard – every 30 days or after voltage reaches low voltage disconnect – can be disabled
Short circuit protection	Standard – electronically protected with auto reset and manual reset switch
Reverse polarity protection	Standard – fully protected
Low voltage disconnect	Standard – adjustable automatic or manual operation, manual reconnection includes warning flash of loads five minutes before and a ten minute grace period
Options	
Battery temperature sensor	BTS – battery temperature sensor for increased charging precision
Regulatory approval	
CE marked for the Low Voltage Directive and EMC Directive	

Specifications are subject to change without notice.

C Series PWM charge controller

PV charge, diversion and load controller

The C35 and C60 are field configurable for 12 V and 24 V operation. The C40 may be configured for 12 V, 24 V, or 48 V operation. All can be used as a charge, diversion, or load controller and come with a standard multi-color charge status LED face plate.

Why choose C Series PWM?



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

- Improve battery life with pulse width modulated (PWM) multi-stage temperature compensated charging
- Two-year standard warranty



Flexible

- PV charge, diversion, load controller
- Available remote display with cumulative AMP hours



Easy to service

- Electronic protection against short-circuit, overload, and over-temperature conditions
- Tolerance to hostile environments with conformal-coated boards and powder-coated enclosure



Easy to install

- Field adjustable voltage and battery set point
- Automatically disconnects from the battery at night
- Compatible with negative ground and ungrounded systems



Product applications



Residential, backup power and grid-tie



Off-grid solar



Community electrification

Device short name	C35	C40	C60
Electrical specifications			
Rated PV current	35 A	40 A	60 A
Charging / load current @ 25°C (77°F)	35 A	40 A	60 A
Voltage configurations	12 and 24 V	12, 24, and 48 V	12 and 24 V
Max. PV open circuit array voltage	55 V	125 V	55 V
Max. voltage drop through controller	0.30 V	0.30 V	0.30 V
Total operating consumption	15 mA	15 mA	15 mA
Recommended breaker size	60 A rated at 100% continuous duty	60 A rated at 100% continuous duty	60 A rated at 100% continuous duty
Recommended wire size	#6 AWG rated at 90°C (194°F)	#6 AWG rated at 90°C (194°F)	#6 AWG rated at 90°C (194°F)
Lead acid battery settings	Adjustable	Adjustable	Adjustable
NiCd battery settings	Adjustable	Adjustable	Adjustable
Load control mode	Low voltage reconnect – adjustable (sticker provided with unit) all models Low voltage disconnect – user selectable manual or automatic reconnection – (includes warning flash before disconnect and provides a one time, user selected grace period) all models		
General specifications			
Power consumption, night time	3 mA	3 mA	3 mA
Enclosure material	Indoor, ventilated, powder coated steel with 2 cm and 2.5 cm knockouts	Indoor, ventilated, powder coated steel with 2 cm and 2.5 cm knockouts	Indoor, ventilated, powder coated steel with 2 cm and 2.5 cm knockouts
Product weight	1.2 kg (2.7 lb)	1.4 kg (3.1 lb)	1.4 kg (3.1 lb)
Shipping weight	1.4 kg (3.1 lb)	1.6 kg (3.5 lb)	1.6 kg (3.5 lb)
Product dimensions (H x W x D)	20.3 x 12.7 x 6.4 cm (8.0 x 5.0 x 2.5 in)	25.4 x 12.7 x 6.4 cm (10.0 x 5.0 x 2.5 in)	25.4 x 12.7 x 6.4 cm (10.0 x 5.0 x 2.5 in)
Shipping dimensions (H x W x D)	31.5 x 17.8 x 6.4 cm (12.4 x 7.0 x 2.5 in)	31.5 x 17.8 x 6.4 cm (12.4 x 7.0 x 2.5 in)	31.5 x 17.8 x 6.4 cm (12.4 x 7.0 x 2.5 in)
Device mounting	Vertical wall mount – indoor only	Vertical wall mount – indoor only	Vertical wall mount – indoor only
Ambient air temperature for operation	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Operating altitude	4572 m (15000 ft)	4572 m (15000 ft)	4572 m (15000 ft)
Non-operating altitude	15240 m (50000 ft)	15240 m (50000 ft)	15240 m (50000 ft)
Warranty	Two-year standard	Two-year standard	Two-year standard
Part number	C35, C40, C60		
Features			
Display type	Multi color LED indicates the operating and battery voltage status		
Regulation method	Solid state, three-stage (bulk, absorption, and float), pulse width modulation		
Field adjustable control setpoints	Two user adjustable voltage setpoints for control of loads or charging sources – settings retained if battery is disconnected		
Equalization charge	User selectable manual or automatic equalization – every 30 days		
Optional Accessories			
CM	Backlit LCD faceplate, alphanumeric display showing battery voltage, DC amperage, cumulative amp hours		
CM/R-50	Backlit LCD remote, alphanumeric display showing battery voltage, DC amperage, cumulative amp hours, 15 meter (50 ft) cable		
CM/R-100	Backlit LCD remote, alphanumeric display showing battery voltage, DC amperage, cumulative amp hours, 30.5 meter (100 ft) cable		
Battery temperature sensor BTS	Battery temperature sensor for increased charging precision		
Regulatory approval			
Safety	UL listed to UL1741* and CSA 107.1-01; CE Marked for the Low Voltage Directive		
EMC	FCC and Industry Canada Class B, CE Marked for the EMC Directive		

Specifications are subject to change without notice. *Assembly with optional digital meter is NOT UL listed.

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



Product applications



Residential, backup power and grid-tie



Small commercial, backup power and grid-tie



Off-grid solar



Community electrification

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, SNTP, Auto discovery: DPWS
RS485	Modbus (1 x Connector: Screw 5-terminal, 16-24AWG, 2-wire serial, 19200 bps)
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 see page 60 for more details
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 see page 62 for more details
Conext SW inverter / charger (120 V)	SW 2524 product no. 865-2524 SW 4024 product no. 865-3524 see page 58 for more details
Conext SW inverter / charger (230 V)	SW 2524 product no. 865-2524-61 SW 4024 product no. 865-3524-61 see page 58 for more details
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 see page 42 for more details
MPPT 60 150 solar charge controller	Product no. 865-1030-1 see page 66 for more details
MPPT 80 600 solar charge controller	Product no. 865-1032 see page 64 for more details
System Control Panel (SCP)	Product no. 865-1050 see page 74 for more details
Automatic Generator Start (AGS)	Product no. 865-1060 see page 74 for more details
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.

Conext XW and Conext SW system accessories



System Control Panel (SCP)*

(865-1050)

The SCP features a graphical, backlit LCD display providing system configuration and diagnostic information for devices connected to the Xanbus™ enabled network. The SCP gives a single point of control to setup and monitor an entire system, which may consist of multiple Conext inverter/chargers, MPPT solar charge controllers and other components.



Automatic Generator Start (AGS)*

(865-1060)

The AGS will automatically activate a generator to provide an Conext XW inverter/charger with power to recharge a depleted battery bank or provide additional power for heavy loads. The AGS adds intelligence to generator management, thereby eliminating time spent monitoring batteries and inverter loads.



XW Conduit Box (CB)

(865-1025)

The Xantrex XW CB, is a bare conduit box (no wires) that can be used to create systems larger than two inverters, or to retrofit Conext XW inverter/charger into existing systems which may already have AC/DC disconnects.



XW Connection Kit (CK)

(865-1020)

The XW CK is a wiring kit and conduit box used to connect a second inverter to a XW Power Distribution Panel. All wires are measured, pre-cut and labeled to facilitate quick and easy installation.



XW Power Distribution Panel (PDP)

(865-1015)

The XW PDP, which comes with a conduit box, is factory-wired and labeled to support a code-compliant single-inverter installation. Internal wiring and breakers can be added to expand the Conext XW system with up to three inverters, four charge controllers, or other equipment to support larger systems.



XW Configuration Tool (CT)

(865-1155)

The XW CT is a PC-based tool (application and network adapter) that provides for versatile XW system analysis, configuration, and recording of system and individual component (XW inverter/charger, XW Charge Controller, AGS) settings. Tool wizards enhance the configuration process, the XW CT can be used to update component firmware – right in the field!



Battery Temperature Sensor (BTS)

(130-0004)

The BTS mounts on your battery and measures its temperature. It sends precise information to an inverter/charger or charge controller, which automatically adjusts charging voltage to ensure full battery charge, regardless of the ambient temperature of your battery installation.

* Meets regulatory approvals:
CSA Certified (UL458 and CSA 107.1)
EMC Directive: FCC and Industry Canada Class B, and CE marked for the EMC Directive (EN61000-6-1, -6-3).

Conext SW Universal DC Breaker Panel



Universal DC Breaker Panel

(865-1016)

The universal DC Breaker Panel is pre-wired for quick installation with a single Conext SW and ensures a safe and code compliant connection to the battery bank and solar charge controller. The DC Breaker Panel features space for a DC shunt, two spaces for battery breakers and two spaces for breaker connections to MPPT 60-150 solar charge controllers. Two DC Breaker Panels can be stacked for dual Conext SW applications. Enclosure enables side mounting for a single MPPT 60-150 and features a mounting space for a System Control Panel (SCP). A single 250A breaker is included.

Conext SW AC Breaker Panel (120 / 240 V)



AC Breaker Panel (120 / 240 V)

(865-1017)

The AC Breaker Panel (120 / 240 V) is pre-wired for quick installation with a single Conext SW and ensures a safe and code compliant connection to a secondary AC distribution panel or directly to AC loads. The AC Breaker Panel (120 / 240 V) accommodates split phase output from Conext SW (120 / 240 V). The AC Breaker Panel (120 / 240 V) features seven breaker spots for inverter AC input, AC output, interlocked AC bypass and GFCI breakers. There is provisioning for a single DIN mounted surge arrestor and multiple inline surge arrestors. Three 30 A breakers are included. Dual Conext SW installations can be accommodated with the addition of the AC Breaker Kit for Stacked Conext SW (120 / 240 V) - 865-1019.

Conext SW AC Breaker Panel (230 V)



AC Breaker Panel (230 V)

(865-1017-61)

The AC Breaker Panel (230 V) is pre-wired for quick installation with a single Conext SW and ensures a safe and code compliant connection to secondary AC distribution panel or directly to AC loads. The AC Breaker Panel (230 V) features twelve breaker spots for inverter AC input, AC output, interlocked AC bypass and GFCI breakers. There is provisioning for multiple DIN mounted surge arrestors and multiple inline surge arrestors. Three 30 A breakers are included. Dual Conext SW installations can be accommodated with the addition of the AC Breaker Kit for Stacked Conext SW (230 V) - 865-1019-61.

Selected customer references

Global support that makes any size installation a success story



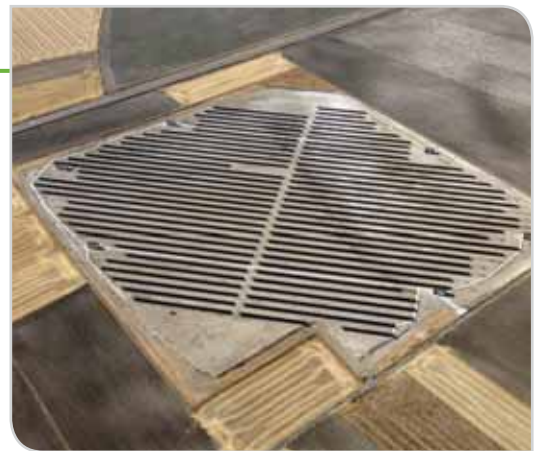
> 4.5 MW off-grid installation (California, USA)



> 5.2 MW power plant (North Carolina, USA)



> 18 MW power plant (La Reunion, France)



> 3 MW power plant (Villanueva del Aceral, Spain)



> 5 MW power plant (Osiyan, India)

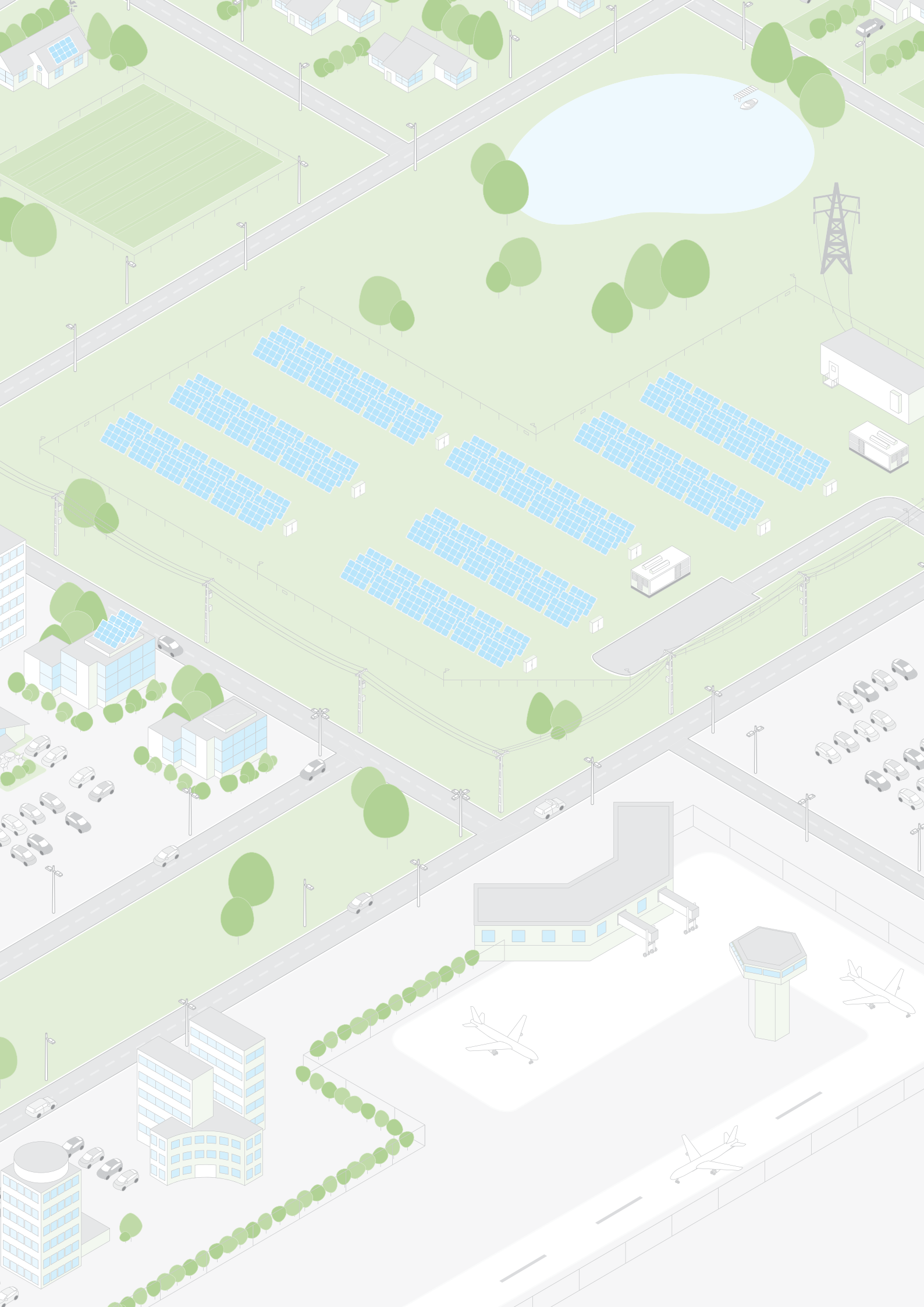


> 7.5 MW power plant
(Phetchabun, Thailand)



> 43 MW power plant (Plugia, Italy)





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