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!

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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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.
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

*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

![Image of grid infrastructure and smart city]

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

**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

"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

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Technical support</th>
<th>Preventive activities</th>
<th>Corrective Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spares availability</td>
<td>Technical support</td>
<td>Spares costs</td>
<td>Labor costs</td>
</tr>
<tr>
<td>Technical support</td>
<td>Essential</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Essential</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Optimum</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Elite</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ultra</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

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 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/MIBF (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

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

- 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

- 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

Pages 13 - 35

Grid-tie commercial building solutions
- Inverters and power conversion substation
- Grid connection substation
- Monitoring and control
- Array box
- Switchgears and circuit protection

Pages 35 - 49
Off-grid solar and backup power solutions

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

Pages 51 - 75

Grid-tie residential solutions

- Inverters
- Monitoring
- Distribution panels
- Circuit protection

Pages 35 - 49
Large commercial buildings and PV power plants solutions
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.
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

PV modules
Array Box
Conext Core XC
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 modules
- Array Box
- PV Box
- Grid Box
- Conext Core XC
- LV/MV transformer
- MV switchgear
- Monitoring
- Grid

Puglia (Italy)
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

Product applications

Large commercial
Centralised PV plants
### Device short name

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV Box 1080</td>
<td>PV Box 1260</td>
<td>PV Box 1360</td>
</tr>
</tbody>
</table>

### Electrical specifications

#### Input ratings (DC)

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended PV power</td>
<td>2 x 621 kWp</td>
<td>2 x 725 kWp</td>
</tr>
<tr>
<td>Voltage range, MPPT</td>
<td>440 - 800 V (at PF=1)</td>
<td>510 - 800 V (at PF=1)</td>
</tr>
<tr>
<td>Max. input voltage, open circuit</td>
<td>1000 V</td>
<td>1000 V</td>
</tr>
<tr>
<td>Max. DC current</td>
<td>2 x 1280 A</td>
<td>2 x 1280 A</td>
</tr>
</tbody>
</table>

#### Output ratings (AC)

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal power</td>
<td>1080 kVA</td>
<td>1260 kVA</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>up to 36 kV</td>
<td>up to 36 kV</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
<td>50 Hz</td>
</tr>
</tbody>
</table>

### General specifications

#### Inverters

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>2 x XC 540</td>
<td>2 x XC 630</td>
</tr>
</tbody>
</table>

#### DC combiner

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard configuration 1</td>
<td>2 x 6 input channels max. with fuses between 350 and 400 A</td>
<td>2 x 6 input channels max. with fuses between 350 and 400 A</td>
</tr>
<tr>
<td>Standard configuration 2</td>
<td>2 x 8 input channels max. with fuses between 160 and 350 A</td>
<td>2 x 8 input channels max. with fuses between 160 and 350 A</td>
</tr>
</tbody>
</table>

#### Transformer

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power rating</td>
<td>1080 kVA</td>
<td>1260 kVA</td>
</tr>
<tr>
<td>Standard</td>
<td>IEC 60076</td>
<td>IEC 60076</td>
</tr>
</tbody>
</table>

#### MV protection

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid voltage &lt; 24 kV</td>
<td>RM6</td>
<td>RM6</td>
</tr>
<tr>
<td>Grid voltage 24 to 36 kV</td>
<td>Flusarc</td>
<td>Flusarc</td>
</tr>
</tbody>
</table>

#### Auxiliary power supply

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage / frequency</td>
<td>230 V / 50 Hz</td>
<td>230 V / 50 Hz</td>
</tr>
<tr>
<td>Power rating</td>
<td>2500 VA, ensured by UPS</td>
<td>2500 VA, ensured by UPS</td>
</tr>
</tbody>
</table>

### Enclosure

#### Dimensions

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>During transportation (H x W x D)</td>
<td>302.3 x 249.4 x 674.0 cm (119.0 x 98.1 x 265.3 in)</td>
<td>302.3 x 249.4 x 674.0 cm (119.0 x 98.1 x 265.3 in)</td>
</tr>
<tr>
<td>Assembled on site (H x W x D)</td>
<td>332.3 x 249.4 x 674.0 cm (130.8 x 98.1 x 265.3 in)</td>
<td>332.3 x 249.4 x 674.0 cm (130.8 x 98.1 x 265.3 in)</td>
</tr>
</tbody>
</table>

#### Weight

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>&lt; 20 Tons</td>
<td>&lt; 20 Tons</td>
</tr>
</tbody>
</table>

#### Layout

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subdivision</td>
<td>Fully separated LV and MV compartments</td>
<td>Fully separated LV and MV compartments</td>
</tr>
</tbody>
</table>

#### Cooling

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV compartment</td>
<td>Forced, ensured by inverter fans. No extra fans</td>
<td>Forced, ensured by inverter fans. No extra fans</td>
</tr>
<tr>
<td>MV compartment</td>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>IP grade</td>
<td>IP54 (with filters)</td>
<td>IP54 (with filters)</td>
</tr>
<tr>
<td>Transformer / MV protection</td>
<td>IP21 / IP33</td>
<td>IP21 / IP33</td>
</tr>
</tbody>
</table>

#### Operating conditions

<table>
<thead>
<tr>
<th>PV Box 1080</th>
<th>PV Box 1260</th>
<th>PV Box 1360</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>-10°C / +45°C, power derating for higher ambient</td>
<td>-10°C / +45°C, power derating for higher ambient</td>
</tr>
<tr>
<td>Max. relative humidity</td>
<td>95% non condensing</td>
<td>95% non condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>&lt; 1500 m</td>
<td>&lt; 1500 m</td>
</tr>
<tr>
<td>Max. solar irradiance</td>
<td>1200 W / m²</td>
<td>1200 W / m²</td>
</tr>
<tr>
<td>Max. wind speed</td>
<td>123 km / h</td>
<td>123 km / h</td>
</tr>
<tr>
<td>Max. snow load</td>
<td>250 kg / m²</td>
<td>250 kg / m²</td>
</tr>
<tr>
<td>Seism</td>
<td>Peak horizontal acceleration up to 0.3” g</td>
<td>Peak horizontal acceleration up to 0.3” g</td>
</tr>
<tr>
<td>Mechanically active pollution</td>
<td>&lt; 0.2 mg / m³</td>
<td>&lt; 0.2 mg / m³</td>
</tr>
<tr>
<td>Chemically active pollution</td>
<td>Rural and suburban environment</td>
<td>Rural and suburban environment</td>
</tr>
<tr>
<td>Other features</td>
<td>Lighting</td>
<td>Indoor and outdoor lighting</td>
</tr>
<tr>
<td>Energy supply for servicing</td>
<td>Socket outlets</td>
<td>Socket outlets</td>
</tr>
<tr>
<td>Heating</td>
<td>Heater with thermostat</td>
<td>Heater with thermostat</td>
</tr>
<tr>
<td>Safety</td>
<td>Emergency lighting, safety and information kit according to IEC 62271-202</td>
<td>Emergency lighting, safety and information kit according to IEC 62271-202</td>
</tr>
</tbody>
</table>

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**
  - XC 540: 621 kW
  - XC 630: 725 kW
  - XC 680: 782 kW
- **Input voltage range, MPPT**
  - XC 540: 440 - 800 V (at PF=1)
  - XC 630: 510 - 800 V (at PF=1)
  - XC 680: 550 - 850 V
- **Input voltage range, operating**
  - XC 540: 440 - 850 V
  - XC 630: 510 - 850 V
  - XC 680: 550 - 850 V
- **Max. input voltage, open circuit**
  - XC 540: 1000 V
  - XC 630: 1000 V
  - XC 680: 1000 V
- **Max. input current**
  - XC 540: 1280 A
  - XC 630: 1280 A
  - XC 680: 1280 A

#### Output (AC)
- **Nominal output power**
  - XC 540: 540 kVA
  - XC 630: 630 kVA
  - XC 680: 680 kVA
- **Output voltage**
  - XC 540: 300 V
  - XC 630: 350 V
  - XC 680: 380 V
- **Frequency**
  - XC 540: 50 / 60 Hz
  - XC 630: 50 / 60 Hz
  - XC 680: 50 / 60 Hz
- **Nominal output current**
  - XC 540: 1040 A
  - XC 630: 1040 A
  - XC 680: 1040 A
- **Power Factor**
  - XC 540: 0.8 to 1.0 lead / lag
  - XC 630: 0.8 to 1.0 lead / lag
  - XC 680: 0.8 to 1.0 lead / lag
- **Efficiency (to IEC61683)**
  - Maximum (@ 50Hz)
    - XC 540: 98.5%
    - XC 630: 98.7%
    - XC 680: 98.9%
  - European (@ 50Hz)
    - XC 540: 98.3%
    - XC 630: 98.4%
    - XC 680: 98.6%
  - CEC (@ 60Hz)
    - XC 540: 98.5%
    - XC 630: 98.5%
    - XC 680: 98.7%

#### General specifications
- **Power consumption, night time**
  - XC 540: < 100 W
  - XC 630: < 100 W
  - XC 680: < 100 W
- **IP degree of protection**
  - XC 540: IP20
  - XC 630: IP20
  - XC 680: IP20
- **Enclosure material**
  - XC 540: Steel
  - XC 630: Steel
  - XC 680: Steel
- **Product weight**
  - XC 540: 1590.0 kg (3505.0 lb)
  - XC 630: 1590.0 kg (3505.0 lb)
  - XC 680: 1590.0 kg (3505.0 lb)
- **Product dimensions (H x W x D)**
  - XC 540: 208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)
  - XC 630: 208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)
  - XC 680: 208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)
- **Ambient air temperature for operation**
  - XC 540: -10°C to 45°C (14ºF to 113ºF) full power, Power derating to 50°C
  - XC 630: -10°C to 45°C (14ºF to 113ºF) full power, Power derating to 50°C
  - XC 680: -10°C to 45°C (14ºF to 113ºF) full power, Power derating to 50°C
- **Operating altitude**
  - XC 540: 1000 m, derating for higher altitudes
  - XC 630: 1000 m, derating for higher altitudes
  - XC 680: 1000 m, derating for higher altitudes
- **Relative humidity**
  - XC 540: 0 to 95% non-condensing
  - XC 630: 0 to 95% non-condensing
  - XC 680: 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 (France), US-MV (FERC 661/661A, FRCC, WECC, NERC PRC-024-1), BDEW (Germany)

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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

Product applications

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

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

Product applications

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

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

Product applications

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

Specifications are subject to change without notice.
## 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 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.
### Monitoring features

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

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

---

Large commercial buildings and PV power plants
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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>AB08-160</th>
<th>AB16-160</th>
<th>AB16-300</th>
<th>AB24-300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of inputs</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>24</td>
</tr>
<tr>
<td>Max. voltage in open circuit</td>
<td>1000 Vdc</td>
<td>1000 Vdc</td>
<td>1000 Vdc</td>
<td>1000 Vdc</td>
</tr>
<tr>
<td>Max. input current in short circuit</td>
<td>25 A</td>
<td>25 A</td>
<td>25 A</td>
<td>25 A</td>
</tr>
</tbody>
</table>

**DC output**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>AB08-160</th>
<th>AB16-160</th>
<th>AB16-300</th>
<th>AB24-300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. output current in short circuit at ambient temperature ≤ 40°C</td>
<td>200 A</td>
<td>200 A</td>
<td>375 A</td>
<td>375 A</td>
</tr>
<tr>
<td>at ambient temperature ≤ 45°C</td>
<td>180 A</td>
<td>200 A</td>
<td>350 A</td>
<td>350 A</td>
</tr>
<tr>
<td>at ambient temperature ≤ 50°C</td>
<td>160 A</td>
<td>200 A</td>
<td>315 A</td>
<td>315 A</td>
</tr>
</tbody>
</table>

**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)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>AB08-160</th>
<th>AB16-160</th>
<th>AB16-300</th>
<th>AB24-300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>-25°C to +50°C, above contact Schneider Electric</td>
<td>-25°C to +50°C, above contact Schneider Electric</td>
<td>-25°C to +50°C, above contact Schneider Electric</td>
<td>-25°C to +50°C, above contact Schneider Electric</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0 to 100% condensing</td>
<td>0 to 100% condensing</td>
<td>0 to 100% condensing</td>
<td>0 to 100% condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>0 to 2000 m without derating</td>
<td>0 to 2000 m without derating</td>
<td>0 to 2000 m without derating</td>
<td>0 to 2000 m without derating</td>
</tr>
</tbody>
</table>

**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

**Product**

Dimensions (H x W x D) | 84.7 x 63.6 x 30.0 cm | 105.6 x 85.2 x 35.0 cm | 105.6 x 85.2 x 35.0 cm | 105.6 x 85.2 x 35.0 cm |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (essential / monitored / controlled)</td>
<td>33.0 / 37.0 / 40.0 kg</td>
<td>63.0 / 67.0 / 71.0 kg</td>
<td>67.0 / 71.0 / 75.0 kg</td>
<td></td>
</tr>
</tbody>
</table>

**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, Imax 40 KA |

AC supply overvoltage protection** | Surge arrester, 230 Vac, type 2, Imax 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 switchinggear | 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. NSYCCNS1400 |

Support bracket for ground-mounting | Product no. NSYCCNS1800 see page 33 for more details |

Plinth for ground-mounting | For AB31-08 models product no. NSY2M283 |

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. NSYAEKFZ 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, it 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, scaleable 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 NSYCCONS1400, NSYCCONS1800, for ground-mounting NSYCCONS1800 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 fibreglass. 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
(NSYCAP125LF)
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.

For more products and information please visit our website at www.schneider-electric.com/solar
Grid-tie residential, commercial buildings, carports and decentralised power plants
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.
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
Using Conext TL inverters in a decentralised PV architecture, the PV array is broken up into smaller sub-arrays, each with its own small power string inverters.
**Conext RL single-phase grid-tie inverter**

**Flexible and efficient residential solar solution**

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

### Why choose Conext RL?

**True bankability**
- Warranty from a trusted partner with over 177 years of experience
- World leader in industrial power drives, UPS and electrical distribution
- Strong service infrastructure worldwide to support your global needs

**Higher return on investment**
- Best in class conversion efficiency: 97.5% peak efficiency
- Broad operating range to harvest more energy (early mornings and late afternoons)
- Higher ROI with dual MPPT
- Shade tolerant MPPT algorithm designed to minimize the effect of partial shading on the energy output

**Designed for reliability**
- Robust design through rigorous Multiple Environmental Over Stress Testing (MEOST) and Temperature Humidity Bias (THB)
- IP65 compliant rugged, completely sealed unit to stand the harshest environmental conditions

**Flexible**
- Dual MPPTs with wide MPPT voltage range (160-500V*) to support multiple roof orientations
- Ability to support unbalanced arrays
- Local as well as remote monitoring options available to track PV plant performance

**Easy to service**
- No moving parts (e.g. fans) for low maintenance and increased uptime
- Easily replaceable communication card
- Integrated DC switch (optional)

**Easy to install**
- Compact unit that allows easy and fast mounting with included bracket
- Pluggable AC and DC connectors (MC4)
- Auto country/multilingual configurations

### 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*
<table>
<thead>
<tr>
<th>Device short name</th>
<th>RL 3000 E</th>
<th>RL 4000 E</th>
<th>RL 5000 E*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical specifications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input (DC)</strong></td>
<td></td>
<td></td>
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<tr>
<td>MPPT voltage range, full power</td>
<td>160 - 500 V</td>
<td>160 - 500 V</td>
<td>180 - 500 V</td>
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<tr>
<td>Operating voltage range</td>
<td>90 - 550 V</td>
<td>90 - 550 V</td>
<td>90 - 550 V</td>
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<tr>
<td>Starting voltage</td>
<td>100 V</td>
<td>100 V</td>
<td>100 V</td>
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<tr>
<td>Max. input voltage, open circuit</td>
<td>550 V</td>
<td>550 V</td>
<td>550 V</td>
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<tr>
<td>Number of MPPT</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Max. input current per MPPT</td>
<td>10 A</td>
<td>12 A</td>
<td>18 A</td>
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<tr>
<td>Max. short circuit current per MPPT</td>
<td>13.9 A</td>
<td>16.7 A</td>
<td>25.0 A</td>
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<td>Nominal input power for max. output</td>
<td>3.2 kW</td>
<td>4.2 kW</td>
<td>5.3 kW</td>
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<tr>
<td>Max. DC input power per MPPT</td>
<td>3.2 kW</td>
<td>3.2 kW</td>
<td>3.5 kW</td>
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<td>DC connection type</td>
<td>MC4, 2 pairs (1+1)</td>
<td>MC4, 4 pairs (2+2)</td>
<td>MC4, 4 pairs (2+2)</td>
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<td>DC switch</td>
<td>Integrated (optional)</td>
<td>Integrated (optional)</td>
<td>Integrated (optional)</td>
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<tr>
<td><strong>Output (AC)</strong></td>
<td></td>
<td></td>
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<tr>
<td>Nominal output power</td>
<td>3 kVA</td>
<td>4 kVA</td>
<td>5 kVA</td>
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<tr>
<td>Nominal output voltage</td>
<td>230 V, single-phase</td>
<td>230 V, single-phase</td>
<td>230 V, single-phase</td>
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<tr>
<td>Isolation</td>
<td>Transformerless</td>
<td>Transformerless</td>
<td>Transformerless</td>
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<tr>
<td>AC voltage range</td>
<td>184 V - 276 V</td>
<td>184 V - 276 V</td>
<td>184 V - 276 V</td>
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<td>Frequency</td>
<td>50 / 60 Hz</td>
<td>50 / 60 Hz</td>
<td>50 / 60 Hz</td>
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<td>Frequency range</td>
<td>50 / 60 Hz +/- 5 Hz</td>
<td>50 / 60 Hz +/- 5 Hz</td>
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<td>Max. output current</td>
<td>13.9 A</td>
<td>18.2 A</td>
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<td>Total harmonic distortion</td>
<td>&lt;3 %</td>
<td>&lt;3 %</td>
<td>&lt;3 %</td>
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<td>Power factor (adjustable)</td>
<td>0.8 lead to 0.8 lag</td>
<td>0.8 lead to 0.8 lag</td>
<td>0.8 lead to 0.8 lag</td>
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<td>AC connection type</td>
<td>IP67 connector</td>
<td>IP67 connector</td>
<td>IP67 connector</td>
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<td><strong>Efficiency</strong></td>
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<td>Peak</td>
<td>97.5%</td>
<td>97.5%</td>
<td>97.5%</td>
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<td>European</td>
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<td>97.0%</td>
<td>97.0%</td>
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<td><strong>General specifications</strong></td>
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<tr>
<td>Power consumption, night time</td>
<td>&lt;1 W</td>
<td>&lt;1 W</td>
<td>&lt;1 W</td>
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<tr>
<td>IP degree of protection</td>
<td>IP65 (electronics and balance)</td>
<td>IP65 (electronics and balance)</td>
<td>IP65 (electronics and balance)</td>
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<td>Climatic category (per IEC 60721-3-4)</td>
<td>4K4H</td>
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<td>Cooling</td>
<td>Natural convection</td>
<td>Natural convection</td>
<td>Natural convection</td>
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<td>Enclosure material</td>
<td>Aluminium</td>
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<td>Product weight</td>
<td>20.0 kg (44.1 lb)</td>
<td>21.0 kg (46.3 lb)</td>
<td>24.0 kg (52.9 lb)</td>
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<td>Shipping weight</td>
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<td>25.0 kg (55.1 lb)</td>
<td>30.0 kg (66.1 lb)</td>
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<td>Product dimensions (H x W x D)</td>
<td>42.0 x 48.0 x 16.0 cm (16.5 x 18.9 x 6.3 in)</td>
<td>42.0 x 48.0 x 16.0 cm (16.5 x 18.9 x 6.3 in)</td>
<td>44.5 x 51.0 x 17.7 cm (17.5 x 20.1 x 7.0 in)</td>
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<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>50.5 x 59.5 x 29.5 cm (19.9 x 23.4 x 11.6 in)</td>
<td>50.5 x 59.5 x 29.5 cm (19.9 x 23.4 x 11.6 in)</td>
<td>56.6 x 61.9 x 33.1 cm (22.3 x 24.4 x 13.0 in)</td>
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<td>Ambient air temperature for operation</td>
<td>-20 to 65°C (-4°F to 149°F)**</td>
<td>-20 to 65°C (-4°F to 149°F)**</td>
<td>-20 to 65°C (-4°F to 149°F)**</td>
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<td>Operating altitude</td>
<td>Up to 2000 m</td>
<td>Up to 2000 m</td>
<td>Up to 2000 m</td>
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<td>Relative humidity</td>
<td>4 - 100% condensing</td>
<td>4 - 100% condensing</td>
<td>4 - 100% condensing</td>
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<td>Noise emission (at 1 m distance)</td>
<td>&lt;40 dB(A)</td>
<td>&lt;40 dB(A)</td>
<td>&lt;40 dB(A)</td>
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<td><strong>Features and options</strong></td>
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<tr>
<td>Embedded data logger</td>
<td>365 days</td>
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<tr>
<td>Display</td>
<td>LCD 2 -line 16 digits, 2 Buttons</td>
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<td>Communication interface standard/optional</td>
<td>RS 485, MODBUS / Ethernet (with built-in web server)</td>
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<tr>
<td>Multifunction relay</td>
<td>Yes</td>
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<tr>
<td>Warranty in years standard/optional</td>
<td>5 / 10</td>
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<td></td>
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<td><strong>Regulatory approvals</strong></td>
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<tr>
<td>Electrical safety</td>
<td>CE marked for the Low Voltage Directive EN / IEC 62109-1 EN / IEC 62109-2, AS3100/AS5033</td>
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<td>Grid interconnection</td>
<td>VDE-AR-N 4105, RD1699, CEI0-21, G592, G58/1, UTE C15-712-1, AS4777, VDE 0126, EN50438, IEC 62116, IEC 61727</td>
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<td>Environmental</td>
<td>RoHS, REACH</td>
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<tr>
<td>EMC</td>
<td>CE marked for the EMC directive 2004-108-EC</td>
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<td>Emissions: EN 61000-6-3 (residential)</td>
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<td></td>
<td>Immunity: EN 61000-6-2 (industrial)</td>
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<td>Available product variants</td>
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<tr>
<td>Standard</td>
<td>PVSNVC3000 (RL 3000 E)</td>
<td>PVSNVC4000 (RL 4000 E)</td>
<td>PVSNVC5000 (RL 5000 E)</td>
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<tr>
<td>With integrated DC switch</td>
<td>PVSNVC3000S (RL 3000 E-S)</td>
<td>PVSNVC4000S (RL 4000 E-S)</td>
<td>PVSNVC5000S (RL 5000 E-S)</td>
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<td><strong>Monitoring accessories</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Local monitoring</td>
<td>Ethernet card (PVSCMC1105)</td>
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<td></td>
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<tr>
<td>Remote monitoring</td>
<td>Conext Monitor 20 (PVSCMC1120)</td>
<td></td>
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</tr>
</tbody>
</table>

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

Product applications

- Residential
- Small commercial

Available in 2.8, 3.3, 3.8 and 5.0 kW
<table>
<thead>
<tr>
<th>Device short name</th>
<th>TX 2800 NA</th>
<th>TX 3300 NA</th>
<th>TX 3800 NA</th>
<th>TX 5000 NA</th>
</tr>
</thead>
</table>

### 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
- **Ground fault protection**: 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
- **AC voltage range**: 212 to 263 V, 212 to 263 V, 212 to 263 V, 212 to 263 V
- **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
- **Frequency**: 60 Hz, 60 Hz, 60 Hz, 60 Hz

### 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)
- **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)
- **Shipping dimensions (H x W x D)**: 107.0 x 57.7 x 26.0 cm, 106.5 x 57.7 x 26.0 cm, 116.5 x 57.7 x 26.0 cm, 116.5 x 57.7 x 26.0 cm
- **Ambient air temperature for operation**: -25°C to 65°C (-13°F to 149°F)
- **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
- **Wiring box**: PV, utility, ground, and communications connections. The inverter can be separated from the wiring box
- **Warranty**: Ten-year standard

### Features and options

#### Topology
- Transformer, isolated

#### Power factor
- 0.99 (at rated power), > 0.95 (full power range)

#### Harmonic distortion
- < 5%

### Efficiency
- **Maximum**: 95.2% / 95.2%, 95.6% / 95.3%, 96.3% / 95.6%, 96.7% / 96.4%
- **CEC weighted**: 94.5% / 94.5%, 95.0% / 94.5%, 95.5% / 95.5%, 96.0% / 95.5%

### 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

Product applications

- Commercial buildings
- Decentralised PV plants
- Carports
## Device short name

<table>
<thead>
<tr>
<th>TL 8000 E</th>
<th>TL 10000 E</th>
<th>TL 15000 E</th>
<th>TL 20000 E</th>
</tr>
</thead>
</table>

### Electrical specifications

#### Input (DC)
- **MPPT voltage range, full power:**
  - 350 - 850 V
  - 350 - 850 V
  - 350 - 850 V
  - 350 - 850 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. 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
  - 62.5 x 61.2 x 27.8 cm
  - 96.0 x 61.2 x 27.8 cm
  - 96.0 x 61.2 x 27.8 cm
- **Shipping dimensions (H x W x D):**
  - 75.0 x 74.0 x 40.0 cm
  - 75.0 x 74.0 x 40.0 cm
  - 115.0 x 79.0 x 48.0 cm
  - 115.0 x 79.0 x 48.0 cm
- **Ambient air temperature for operation:**
  - -20 to 60ºC (-4ºF to 140ºF)
  - -20 to 60ºC (-4ºF to 140ºF)
  - -20 to 60ºC (-4ºF to 140ºF)**
  - -20 to 60ºC (-4ºF to 140ºF)**
- **Relative humidity:**
  - 4 - 100 % (condensing)
  - 4 - 100 % (condensing)
  - 4 - 100 % (condensing)
  - 4 - 100 % (condensing)
- **Noise emission (at 1 m distance):**
  - < 50 dB
  - < 50 dB
  - < 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:**
  - AS3100 (Australia / Israel)**
- **Grid interconnection:**
- **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. Vpv=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

[Image of a Residential installation and a Small commercial installation]
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. PVSNV8000,
- TL 1000 E product no. PVSNV10000,
- TL 15000 E product no. PVSNV15000,
- TL 20000 E product no. PVSNV20000, 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.
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.
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
## Off-grid solar and backup power

<table>
<thead>
<tr>
<th>Device short name</th>
<th>SW 2524 120</th>
<th>SW 4024 120</th>
<th>SW 2524 230</th>
<th>SW 4024 230</th>
</tr>
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<tbody>
<tr>
<td><strong>Electrical specifications - inverter</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output power (continuous) at 25°C</td>
<td>2500 W</td>
<td>3400 W</td>
<td>2500 W</td>
<td>3500 W</td>
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<tr>
<td>Output power (30 min) at 25°C</td>
<td>2700 W</td>
<td>4030 W</td>
<td>2800 W</td>
<td>4000 W</td>
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<tr>
<td>Output power (5 sec) at 25°C</td>
<td>4000 W</td>
<td>7000 W</td>
<td>5000 W</td>
<td>7000 W</td>
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<td>Peak current</td>
<td>24.3 A</td>
<td>41 A</td>
<td>24.3 A</td>
<td>42 A</td>
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<td>Output frequency</td>
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<td>50 / 60 Hz selectable</td>
<td>50 / 60 Hz selectable</td>
<td>50 / 60 Hz selectable</td>
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<td>Output voltage</td>
<td>120 / 240 Vac 120 / 240 Vac</td>
<td>230 Vac</td>
<td>230 Vac</td>
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<td>Output wave form</td>
<td>True sine wave True sine wave</td>
<td>True sine wave True sine wave</td>
<td>True sine wave True sine wave</td>
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<tr>
<td>Optimal efficiency</td>
<td>91.5% 92%</td>
<td>91.5% 92%</td>
<td>91.5% 92%</td>
<td>92%</td>
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<td>Idle consumption search mode</td>
<td>&lt;8 W</td>
<td>&lt;8 W</td>
<td>&lt;8 W</td>
<td>&lt;8 W</td>
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<tr>
<td>Input DC voltage range</td>
<td>20 - 34 Vdc</td>
<td>20 - 34 Vdc</td>
<td>20 - 34 Vdc</td>
<td>20 - 34 Vdc</td>
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<tr>
<td>AC connections</td>
<td>Single / Split phase</td>
<td>Single / Split phase</td>
<td>Single phase</td>
<td>Single phase</td>
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<tr>
<td><strong>Electrical specifications - charger</strong></td>
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<td></td>
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<td></td>
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<tr>
<td>Output current</td>
<td>65 A</td>
<td>90 A</td>
<td>65 A</td>
<td>90 A</td>
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<tr>
<td>Nominal output voltage</td>
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<td>24 Vdc</td>
<td>24 Vdc</td>
<td>24 Vdc</td>
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<tr>
<td>Output voltage range</td>
<td>12 - 32 Vdc</td>
<td>12 - 32 Vdc</td>
<td>12 - 32 Vdc</td>
<td>12 - 32 Vdc</td>
</tr>
<tr>
<td>Charge control</td>
<td>3 stage</td>
<td>3 stage</td>
<td>3 stage</td>
<td>3 stage</td>
</tr>
<tr>
<td>Charge temperature compensation</td>
<td>Yes - BTS included</td>
<td>Yes - BTS included</td>
<td>Yes - BTS included</td>
<td>Yes - BTS included</td>
</tr>
<tr>
<td>Optimal efficiency</td>
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<td>90%</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>AC input power factor</td>
<td>&gt; 0.98</td>
<td>&gt; 0.98</td>
<td>&gt; 0.98</td>
<td>&gt; 0.98</td>
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<tr>
<td>Input current</td>
<td>9 A</td>
<td>13 A</td>
<td>10.6 A</td>
<td>14.0 A</td>
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<tr>
<td>Input AC voltage</td>
<td>120 / 240 Vac split phase</td>
<td>120 / 240 Vac split phase</td>
<td>230 Vac</td>
<td>230 Vac</td>
</tr>
<tr>
<td>Input AC voltage range line to neutral</td>
<td>95 - 135 Vac single phase 135 - 270 Vac split phase</td>
<td>95 - 135 Vac single phase 135 - 270 Vac split phase</td>
<td>170 - 270 Vac</td>
<td>170 - 270 Vac</td>
</tr>
<tr>
<td>Dead battery charge</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>General specifications</strong></td>
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<tr>
<td>Compatible battery types</td>
<td>FLA, Gel, AGM, Custom</td>
<td>FLA, Gel, AGM, Custom</td>
<td>FLA, Gel, AGM, Custom</td>
<td>FLA, Gel, AGM, Custom</td>
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<td>Transfer relay rating</td>
<td>30 A</td>
<td>30 A</td>
<td>30 A</td>
<td>30 A</td>
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<tr>
<td>Transfer time (AC to inverter and inverter to AC)</td>
<td>&lt;1 cycle (16.7 ms)</td>
<td>&lt;1 cycle (16.7 ms)</td>
<td>&lt;1 cycle (20 ms)</td>
<td>&lt;1 cycle (20 ms)</td>
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<tr>
<td>Optimal operating temperature range</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
<td>-20°C to 60°C (-4°F to 140°F)</td>
</tr>
<tr>
<td>Storage ambient temperature range</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
</tr>
<tr>
<td>Product weight</td>
<td>23.0 kg (50.6 lb)</td>
<td>30.5 kg (67.1 lb)</td>
<td>23.0 kg (50.6 lb)</td>
<td>30.5 kg (67.1 lb)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>27.2 kg (60.0 lb)</td>
<td>35.0 kg (77.0 lb)</td>
<td>27.2 kg (60.0 lb)</td>
<td>35.0 kg (77.0 lb)</td>
</tr>
<tr>
<td>Product dimensions (H x W x D)</td>
<td>41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)</td>
<td>41.8 x 34.1 x 19.7 cm (16.5 x 13.4 x 7.6 in)</td>
<td>38.7 x 34.3 x 19.7 cm (15.2 x 13.5 x 7.6 in)</td>
<td>38.7 x 34.3 x 19.7 cm (15.2 x 13.5 x 7.6 in)</td>
</tr>
<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)</td>
<td>56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)</td>
<td>56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)</td>
<td>56.0 x 44.0 x 32.0 cm (22.0 x 17.3 x 12.6 in)</td>
</tr>
<tr>
<td>System network and remote monitoring</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty (Depending on the country of installation)</td>
<td>2 or 5 years</td>
<td>2 or 5 years</td>
<td>2 or 5 years</td>
<td>2 or 5 years</td>
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<td>Part number</td>
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<td>865-4024</td>
<td>865-2524-61</td>
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<tr>
<td><strong>Regulatory approvals</strong></td>
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<td>Safety</td>
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<td>c(CSA) us mark CSA C22.2 No. 107.1-01 UL1741 Ed.2</td>
<td>CE mark RCM mark IEC/EN62109-1, IEC/EN62109-2</td>
<td>CE mark RCM mark IEC/EN62109-1, IEC/EN62109-2</td>
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<tr>
<td>Optional accessories</td>
<td>Universal DC breaker panel</td>
<td>865-1016 see page 75 for more details</td>
<td>865-1016 see page 75 for more details</td>
<td>865-1016 see page 75 for more details</td>
</tr>
<tr>
<td>AC breaker panel (120/240 V)</td>
<td>865-1017 see page 75 for more details</td>
<td>865-1017 see page 75 for more details</td>
<td>865-1017 see page 75 for more details</td>
<td>865-1017 see page 75 for more details</td>
</tr>
<tr>
<td>AC breaker panel (230 V)</td>
<td>865-1017-61 see page 75 for more details</td>
<td>865-1017-61 see page 75 for more details</td>
<td>865-1017-61 see page 75 for more details</td>
<td>865-1017-61 see page 75 for more details</td>
</tr>
<tr>
<td>System Control Panel (SCP)</td>
<td>865-1050 see page 74 for more details</td>
<td>865-1050 see page 74 for more details</td>
<td>865-1050 see page 74 for more details</td>
<td>865-1050 see page 74 for more details</td>
</tr>
<tr>
<td>Automatic Generator Start (AGS)</td>
<td>865-1060 see page 74 for more details</td>
<td>865-1060 see page 74 for more details</td>
<td>865-1060 see page 74 for more details</td>
<td>865-1060 see page 74 for more details</td>
</tr>
<tr>
<td>Conext ComBox</td>
<td>865-1058 see page 72 for more details</td>
<td>865-1058 see page 72 for more details</td>
<td>865-1058 see page 72 for more details</td>
<td>865-1058 see page 72 for more details</td>
</tr>
<tr>
<td>MPPT 60 150 solar charge controller</td>
<td>865-1030-1 see page 86 for more details</td>
<td>865-1030-1 see page 86 for more details</td>
<td>865-1030-1 see page 86 for more details</td>
<td>865-1030-1 see page 86 for more details</td>
</tr>
</tbody>
</table>

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) | 78.7 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 | 71.1 x 57.2 x 39.4 cm | 71.1 x 57.2 x 39.4 cm
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.
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
Non volatile memory | 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
ICM 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 Connection 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 a versatile pure sine wave, single-phase, split-phase or three-phase inverter/charger system with global grid-tie capability and dual AC power inputs. Available solar charge controllers, monitoring, and automated generator control modules enable further adaptability. From a 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

Product applications

- Residential, backup power and grid-tie
- Off-grid solar
- Community electrification
- Small commercial, backup power and grid-tie

Products shown:
Schneider Electric Conext XW inverter/charger,
XW Power Distribution Panel and XW Conduit Box
<table>
<thead>
<tr>
<th>Device short name</th>
<th>XW4024 120 240 60</th>
<th>XW4548 120 240 60</th>
<th>XW6048 120 240 60</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical specifications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous power</td>
<td>4.0 kVA</td>
<td>4.5 kVA</td>
<td>6.0 kVA</td>
</tr>
<tr>
<td>Surge rating</td>
<td>8.0 kVA (20 sec)</td>
<td>9.0 kVA (15 sec)</td>
<td>12.0 kVA (15 sec)</td>
</tr>
<tr>
<td>Peak output current (rms)</td>
<td>L-N: 70 A (20 sec), L-L: 35 A (20 sec)</td>
<td>L-N: 75 A (20 sec), L-L: 40 A (20 sec)</td>
<td>L-N: 106 A (15 sec), L-L: 52.5 A (15 sec)</td>
</tr>
<tr>
<td>Input current at rated power</td>
<td>178 A</td>
<td>96 A</td>
<td>130 A</td>
</tr>
<tr>
<td>Type of signal</td>
<td>True sine wave</td>
<td>True sine wave</td>
<td>True sine wave</td>
</tr>
<tr>
<td>Automatic transfer relay</td>
<td>60 A</td>
<td>60 A</td>
<td>60 A</td>
</tr>
<tr>
<td>Typical transfer time</td>
<td>8 ms</td>
<td>8 ms</td>
<td>8 ms</td>
</tr>
<tr>
<td>DC input voltage (nominal)</td>
<td>25.2 V</td>
<td>50.4 V</td>
<td>50.4 V</td>
</tr>
<tr>
<td>Input voltage limits</td>
<td>20 to 32 V</td>
<td>40 to 64 V</td>
<td>40 to 64 V</td>
</tr>
<tr>
<td>Charging current</td>
<td>150 A</td>
<td>85 A</td>
<td>100 A</td>
</tr>
<tr>
<td>Power factor corrected charging</td>
<td>0.98</td>
<td>0.98</td>
<td>0.98</td>
</tr>
<tr>
<td>Idle consumption (search mode)</td>
<td>&lt; 8 W</td>
<td>&lt; 8 W</td>
<td>&lt; 8 W</td>
</tr>
<tr>
<td>AC input voltage (nominal)</td>
<td>120 / 240 V split-phase</td>
<td>120 / 240 V split-phase</td>
<td>120 / 240 V split-phase</td>
</tr>
<tr>
<td>AC output voltage</td>
<td>L-N: 120 V +/- 3%; L-L: 240 V +/- 3%</td>
<td>L-N: 120 V +/- 3%; L-L: 240 V +/- 3%</td>
<td>L-N: 120 V +/- 3%; L-L: 240 V +/- 3%</td>
</tr>
<tr>
<td>Input voltage limits (bypass/charge mode)</td>
<td>L-N: 78 to 140 V (120 V nominal); L-L: 160 to 270 V (240 V nominal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC1 voltage range (sell mode)</td>
<td>L-N: 106 to 132 +/- 1.5 V; L-L: 214 to 260 +/- 3.0 V (automatically adjusts when entering sell mode)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>60 +/- 0.1 Hz</td>
<td>60 +/- 0.1 Hz</td>
<td>60 +/- 0.1 Hz</td>
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<tr>
<td>AC input frequency range (bypass/charge mode)</td>
<td>55 to 65 Hz (default); 44 - 70 Hz (allowable)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total harmonic distortion (THD) at rated power</td>
<td>&lt; 5%</td>
<td>&lt; 5%</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>AC connections</td>
<td>AC1 (Grid)</td>
<td>AC1 (Grid), AC2 (Generator)</td>
<td>AC1 (Grid), AC2 (Generator)</td>
</tr>
<tr>
<td>AC input breaker</td>
<td>60 A two-pole</td>
<td>60 A two-pole</td>
<td>60 A two-pole</td>
</tr>
<tr>
<td>Utility interactive</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CEC power rating</td>
<td>4.0 kW</td>
<td>4.5 kW</td>
<td>5.760 kW</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peak</td>
<td>94.0%</td>
<td>95.6%</td>
<td>95.4%</td>
</tr>
<tr>
<td>CEC weighted</td>
<td>91.0%</td>
<td>93.0%</td>
<td>92.5%</td>
</tr>
<tr>
<td><strong>General specifications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEMA degree of protection</td>
<td>NEMA1R (indoor rating) (sensitive electronic components sealed inside enclosure)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product weight</td>
<td>52.5 kg (116.0 lb)</td>
<td>53.5 kg (118.0 lb)</td>
<td>55.2 kg (121.7 lb)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>74.0 kg (163.0 lb)</td>
<td>75.0 kg (165.0 lb)</td>
<td>76.7 kg (169.0 lb)</td>
</tr>
<tr>
<td>Product dimensions (H x W x D)</td>
<td>58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)</td>
<td>58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)</td>
<td>58 x 41 x 23 cm (23.0 x 16.0 x 9.0 in)</td>
</tr>
<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)</td>
<td>71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)</td>
<td>71.1 x 56.5 x 26.7 cm (28.0 x 22.3 x 10.5 in)</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-25 to 70°C (-13 to 158°F) (power derated above 45°C (113°F))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System network and remote monitoring</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty (Depending on the country of installation)</td>
<td>2 or 5 years</td>
<td>2 or 5 years</td>
<td>2 or 5 years</td>
</tr>
<tr>
<td>Part number</td>
<td>865-1010</td>
<td>865-1005</td>
<td>865-1000-01</td>
</tr>
<tr>
<td><strong>Features and options</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display type</td>
<td>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</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supported battery types</td>
<td>Flooded (default), Gel, AGM, custom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery bank size</td>
<td>100 to 2000 Ah (scaled to PV array size)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery temperature sensor</td>
<td>Included</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple-unit configurations</td>
<td>Split-phase: up to four parallel units in 120/240 V. Three-phase: up to two units per phase (six units total)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Regulatory approvals</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>UL1741, CSA 107.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>FCC and Industry Canada Class B</td>
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<td></td>
</tr>
<tr>
<td>Interconnect</td>
<td>IEEE 1547 and CSA 107.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XW Product Distribution Panel (PDP)</td>
<td>Product no. 865-1015 see page 74 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XW Connection Kit (CK)</td>
<td>Product no. 865-1020 see page 74 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Control Panel (SCP)</td>
<td>Product no. 865-1050 see page 74 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic Generator Start (AGS)</td>
<td>Product no. 865-1060 see page 74 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPT 60 150 solar charge controller</td>
<td>Product no. 865-1030-1 see page 66 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPT 80 600 solar charge controller</td>
<td>Product no. 865-1032 see page 64 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XW Configuration Tool (CT)</td>
<td>Product no. 865-1155 see page 74 for more details</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conext ComBox</td>
<td>Product no. 865-1058 see page 72 for more details</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
## Off-grid solar and backup power

<table>
<thead>
<tr>
<th>Device short name</th>
<th>MPPT 80 600</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical specifications</strong></td>
<td></td>
</tr>
<tr>
<td>Nominal battery voltage</td>
<td>24 and 48 V (Default is 48 V)</td>
</tr>
<tr>
<td>Max. PV array voltage (operating)</td>
<td>195 to 550 V</td>
</tr>
<tr>
<td>Max. PV array open circuit voltage</td>
<td>600 V including temperature correction factor</td>
</tr>
<tr>
<td>Battery voltage operating range</td>
<td>16 to 67 VDC</td>
</tr>
<tr>
<td>Array short-circuit current</td>
<td>35 A (28 A @ STC)</td>
</tr>
<tr>
<td>Max. charge current</td>
<td>80 A</td>
</tr>
<tr>
<td>Max. and min. wire size in conduit</td>
<td>#6 AWG to #14 AWG (13.5 to 2.5 mm²)</td>
</tr>
<tr>
<td>Max. output power</td>
<td>2560 W (nominal 24 V), 4800 W (nominal 48 V)</td>
</tr>
<tr>
<td>Charger regulation method</td>
<td>Three-stage (bulk, absorption, float) plus manual equalization, Two-stage (bulk, absorption) plus manual equalization</td>
</tr>
<tr>
<td>Supported battery types</td>
<td>Flooded, GEL, AGM, Custom</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td></td>
</tr>
<tr>
<td>Max. power conversion efficiency</td>
<td>94% (nominal 24V), 96% (nominal 48V)</td>
</tr>
<tr>
<td><strong>General specifications</strong></td>
<td></td>
</tr>
<tr>
<td>Power consumption, night time</td>
<td>&lt; 1 W</td>
</tr>
<tr>
<td>Battery temperature sensor</td>
<td>Included</td>
</tr>
<tr>
<td>Auxiliary output</td>
<td>Dry contact switching up to 60VDC, 30VAC, 8A</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>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</td>
</tr>
<tr>
<td>IP degree of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Product weight</td>
<td>13.5 kg (29.8 lb)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>17.4 kg (38.3 lb)</td>
</tr>
<tr>
<td>Product dimensions (H x W x D)</td>
<td>76.0 × 22.0 × 22.0 cm (30.0 × 8.6 × 8.6 in)</td>
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<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>87.0 × 33.0 × 27.0 cm (34.3 × 13.0 × 10.6 in)</td>
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<tr>
<td>Device mounting</td>
<td>Vertical wall mount</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-20°C to 65°C (-4°F to 149°F), power derating above 45°C</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-40°C to 85°C (-40°F to 185°F)</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>Sea level to 2000 m (6562 ft)</td>
</tr>
<tr>
<td>System network and remote monitoring</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year standard</td>
</tr>
<tr>
<td>Part number</td>
<td>865-1032</td>
</tr>
<tr>
<td><strong>Regulatory approval</strong></td>
<td></td>
</tr>
<tr>
<td>Safety</td>
<td>CSA Certified (UL1741, CSA 107.1) and CE Marked for the Low Voltage Directive (EN50178)</td>
</tr>
<tr>
<td>EMC</td>
<td>FCC and Industry Canada (Class B), CE Marked for the EMC Directive (EN61000-6-1, -6-3), C-Tick compliant</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td></td>
</tr>
<tr>
<td>Conext XW inverter/charger</td>
<td>XW 4024 product no. 865-1045-61</td>
</tr>
<tr>
<td>(230 V / 50 Hz)</td>
<td>XW 6048 product no. 865-1033-61 see page 60 for more details</td>
</tr>
<tr>
<td>Conext XW inverter/charger</td>
<td>XW 4024 product no. 865-1010</td>
</tr>
<tr>
<td>(120 / 240 V / 60 Hz)</td>
<td>XW 6048 product no. 865-1000-01 see page 62 for more details</td>
</tr>
<tr>
<td>Conext SW inverter / charger</td>
<td>SW 2524 product no. 865-2524</td>
</tr>
<tr>
<td>(120 V)</td>
<td>SW 4024 product no. 865-3524 see page 58 for more details</td>
</tr>
<tr>
<td>Conext SW inverter / charger</td>
<td>SW 2524 product no. 865-2524-61</td>
</tr>
<tr>
<td>(230 V)</td>
<td>SW 4024 product no. 865-3524-61 see page 58 for more details</td>
</tr>
<tr>
<td>System Control Panel (SCP)</td>
<td>Product no. 865-1050 see page 74 for more details</td>
</tr>
<tr>
<td>Automatic Generator Start (AGS)</td>
<td>Product no. 865-1060 see page 74 for more details</td>
</tr>
<tr>
<td>Conext ComBox</td>
<td>Product no. 865-1058 see page 72 for more details</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
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
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal battery voltage</td>
<td>12, 24, 36, 48, 60 V</td>
</tr>
<tr>
<td>Battery voltage operating range</td>
<td>0 Vdc to 80 Vdc</td>
</tr>
<tr>
<td>Max. PV array voltage (operating)</td>
<td>140 V</td>
</tr>
<tr>
<td>Max. PV array open circuit voltage</td>
<td>150 V including temperature correction factor</td>
</tr>
<tr>
<td>Max. array short-circuit current</td>
<td>60 A (48 A @ STC)</td>
</tr>
<tr>
<td>Max. charge current</td>
<td>60 A (for all battery voltages except 60 V)</td>
</tr>
<tr>
<td>Max. and min. wire size in conduit</td>
<td>#6 AWG to #14 AWG (10 to 2.5 mm²)</td>
</tr>
<tr>
<td>Max. output power</td>
<td>3500 W</td>
</tr>
<tr>
<td>Charger regulation method</td>
<td>Three-stage (bulk, absorption, float) plus manual equalization</td>
</tr>
<tr>
<td>Two-stage (bulk, absorption) plus manual equalization</td>
<td></td>
</tr>
<tr>
<td>Supported battery types</td>
<td>Flooded, GEL, AGM, Custom</td>
</tr>
</tbody>
</table>

### 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
<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption, night time</td>
<td>2.5 W</td>
</tr>
<tr>
<td>Battery temperature sensor</td>
<td>Included</td>
</tr>
<tr>
<td>Auxiliary output</td>
<td>5 - 13 V, up to 200 mA</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>Indoor, ventilated, sheet metal chassis with 2.2 cm and 2.8 cm (7/8 in and 1 in) knockouts and aluminium heat-sink</td>
</tr>
<tr>
<td>IP degree of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>Product weight</td>
<td>4.8 kg (10.8 lb)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>8.0 kg (17.6 lb)</td>
</tr>
<tr>
<td>Product dimensions (H x W x D)</td>
<td>36.8 x 14.6 x 13.8 cm (14.5 x 5.8 x 5.5 in)</td>
</tr>
<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>48.3 x 22.9 x 35 cm (19.0 x 9.0 x 9.8 in)</td>
</tr>
<tr>
<td>Device mounting</td>
<td>Vertical wall mount</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-20°C to 45°C (-4°F to 113°F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>-40°C to 85°C (-40°F to 185°F) full power, power derating above 45°C</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>Sea level to 2000 m (6562 ft)</td>
</tr>
<tr>
<td>System network and remote monitoring</td>
<td>Available</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year standard</td>
</tr>
<tr>
<td>Part number</td>
<td>865-1030-1</td>
</tr>
</tbody>
</table>

### Features
<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display type</td>
<td>LCD, 2 lines 16 digits</td>
</tr>
</tbody>
</table>

### 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. 865-1050 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
<table>
<thead>
<tr>
<th>Device short name</th>
<th>C12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical specifications</strong></td>
<td></td>
</tr>
<tr>
<td>Rated PV current</td>
<td>12 A at 12 V only</td>
</tr>
<tr>
<td>Min. operating voltage</td>
<td>6 V</td>
</tr>
<tr>
<td>Max. PV open circuit array voltage</td>
<td>25 V</td>
</tr>
<tr>
<td>Max. voltage drop (PV to battery)</td>
<td>0.3 V</td>
</tr>
<tr>
<td>Max. voltage drop (battery to DC load)</td>
<td>0.5 V</td>
</tr>
<tr>
<td>Regulation setting</td>
<td>13 to 15 V</td>
</tr>
<tr>
<td>Equalize setting</td>
<td>Bulk plus 1 volt for two hours</td>
</tr>
<tr>
<td>Min. operating voltage</td>
<td></td>
</tr>
<tr>
<td>Max. stranded wire size</td>
<td>#10 AWG stranded (5.2 mm²)</td>
</tr>
<tr>
<td>Typical consumption while charging</td>
<td>0.007 A</td>
</tr>
<tr>
<td>Typical consumption with load disconnected</td>
<td>0.003 A</td>
</tr>
<tr>
<td><strong>General specifications</strong></td>
<td></td>
</tr>
<tr>
<td>Power consumption, night time</td>
<td>0.003 A</td>
</tr>
<tr>
<td>Enclosure material</td>
<td>Powder coated steel with strain relief for wiring and knockouts for up to 3.5 in conduits</td>
</tr>
<tr>
<td>Product weight</td>
<td>0.9 kg (2.0 lb)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>1.1 kg (2.5 lb)</td>
</tr>
<tr>
<td>Product dimensions (H x W x D)</td>
<td>16.5 x 11.0 x 4.0 cm (6.5 x 4.3 x 1.6 in)</td>
</tr>
<tr>
<td>Shipping dimensions (H x W x D)</td>
<td>20.3 x 11.7 x 4.0 cm (8.0 x 4.6 x 1.6 in)</td>
</tr>
<tr>
<td>Device mounting</td>
<td>Vertical wall mount – indoor only</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two-year standard</td>
</tr>
<tr>
<td>Part number</td>
<td>C12 – charge controller</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td></td>
</tr>
<tr>
<td>Regulation method</td>
<td>Standard – three-stage (bulk, absorption, and float), solid state, pulse width modulation</td>
</tr>
<tr>
<td>Field adjustable control setpoints</td>
<td>Standard – removable knobs and calibrated scales</td>
</tr>
<tr>
<td>Setting protection</td>
<td>Standard – knobs can be removed to prevent tampering</td>
</tr>
<tr>
<td>Testpoints</td>
<td>Standard – provided for each setting</td>
</tr>
<tr>
<td>Automatic equalization</td>
<td>Standard – every 30 days or after voltage reaches low voltage disconnect – can be disabled</td>
</tr>
<tr>
<td>Short circuit protection</td>
<td>Standard – electronically protected with auto reset and manual reset switch</td>
</tr>
<tr>
<td>Reverse polarity protection</td>
<td>Standard – fully protected</td>
</tr>
<tr>
<td>Low voltage disconnect</td>
<td>Standard – adjustable automatic or manual operation, manual reconnection includes warning flash of loads five minutes before and a ten minute grace period</td>
</tr>
<tr>
<td><strong>Options</strong></td>
<td></td>
</tr>
<tr>
<td>Battery temperature sensor</td>
<td>BTS – battery temperature sensor for increased charging precision</td>
</tr>
<tr>
<td><strong>Regulatory approval</strong></td>
<td></td>
</tr>
<tr>
<td>CE marked for the Low Voltage Directive and EMC Directive</td>
<td></td>
</tr>
</tbody>
</table>

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
### Electrical specifications

<table>
<thead>
<tr>
<th>Device short name</th>
<th>C35</th>
<th>C40</th>
<th>C60</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated PV current</strong></td>
<td>35 A</td>
<td>40 A</td>
<td>60 A</td>
</tr>
<tr>
<td><strong>Charging / load current @ 25°C (77°F)</strong></td>
<td>35 A</td>
<td>40 A</td>
<td>60 A</td>
</tr>
<tr>
<td><strong>Voltage configurations</strong></td>
<td>12 and 24 V</td>
<td>12, 24, and 48 V</td>
<td>12 and 24 V</td>
</tr>
<tr>
<td><strong>Max. PV open circuit array voltage</strong></td>
<td>55 V</td>
<td>125 V</td>
<td>55 V</td>
</tr>
<tr>
<td><strong>Max. voltage drop through controller</strong></td>
<td>0.30 V</td>
<td>0.30 V</td>
<td>0.30 V</td>
</tr>
<tr>
<td><strong>Total operating consumption</strong></td>
<td>15 mA</td>
<td>15 mA</td>
<td>15 mA</td>
</tr>
<tr>
<td><strong>Recommended breaker size</strong></td>
<td>60 A rated at 100% continuous duty</td>
<td>60 A rated at 100% continuous duty</td>
<td>60 A rated at 100% continuous duty</td>
</tr>
<tr>
<td><strong>Recommended wire size</strong></td>
<td>#6 AWG rated at 90°C (194°F)</td>
<td>#6 AWG rated at 90°C (194°F)</td>
<td>#6 AWG rated at 90°C (194°F)</td>
</tr>
<tr>
<td><strong>Lead acid battery settings</strong></td>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
</tr>
<tr>
<td><strong>NiCd battery settings</strong></td>
<td>Adjustable</td>
<td>Adjustable</td>
<td>Adjustable</td>
</tr>
<tr>
<td><strong>Load control mode</strong></td>
<td>Low voltage reconnect – adjustable (sticker provided with unit) all models</td>
<td>Low voltage disconnect – user selectable manual or automatic reconnect – (includes warning flash before disconnect and provides a one time, user selected grace period) all models</td>
<td></td>
</tr>
</tbody>
</table>

### 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 | 25.4 x 12.7 x 6.4 cm | 25.4 x 12.7 x 6.4 cm |
| **Shipping dimensions (H x W x D)** | 31.5 x 17.8 x 6.4 cm | 31.5 x 17.8 x 6.4 cm | 31.5 x 17.8 x 6.4 cm |
| **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

Ethernet: Connector: 1 x RJ45, 10 / 100 MBPS

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 / 60 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).*
Universal DC Breaker Panel

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 charger 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.

AC Breaker Panel (120 / 240 V)

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.

AC Breaker Panel (230 V)

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

5 MW power plant (Osiyan, India)

7.5 MW power plant (Phetchabun, Thailand)

18 MW power plant (La Reunion, France)

43 MW power plant (Plugia, Italy)
Make the most of your energy℠

Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in energy and infrastructure, industrial processes, building automation, and data centres/networks, as well as a broad presence in residential applications. Focused on making energy safe, reliable, and efficient, the company’s 100,000 plus employees achieved sales of 24 billion euros in 2012, through an active commitment to help individuals and organizations “Make the most of their energy”.

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