The Conext Core XC is a series 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 99.0% 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.

Product at a glance

Higher return on investment

- Best in class efficiency with 99.0% peak, 98.7% weighted EU
- Increased uptime due to high reliability and comprehensive global service network

Easy to service

- Integrated switchgear using Masterpact NW (AC circuit breaker, DC switch)
- Full suite of alarms and troubleshooting tools allow for remote diagnostics

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 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
- Pre-connection insulation detection with GFDI helps reduce hazards from PV array blind spots

Product applications

| PV power plants centralized | Commercial grid-tie centralized |

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### Device short name

<table>
<thead>
<tr>
<th>Device short name</th>
<th>XC 540</th>
<th>XC 630</th>
<th>XC 680</th>
</tr>
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</table>

### Electrical specifications

#### Input (DC)

| Input voltage range, MPPT | 440 - 800 V (at PF=1) | 510 - 800 V (at PF=1) | 550 - 800 V (at PF=1) |

#### Static and dynamic MPPT accuracy

| Input voltage range, operating | 440 - 885 V | 510 - 885 V | 550 - 885 V |

#### Max. input voltage, open circuit

| Max. input voltage, open circuit | 1000 V | 1000 V | 1000 V |

#### Max. input current

| Max. input current | 1280 A | 1280 A | 1280 A |

#### Max. input short circuit current

| Max. input short circuit current | 2000 A | 2000 A | 2000 A |

### Output (AC)

- **Nominal output power**: 540 kVA
  - Real power: 540 kW (at PF=1)
  - Reactive power range: ± 540 kVAR
  - Output voltage: 300 V
  - Frequency: 50 / 60 Hz
  - Nominal output current: 1040 A
  - Power factor settable range (Ppf dispatch): 0.7 to 1.0 leading and lagging
  - Harmonic distortion: < 3% at rated power
  - Efficiency (to IEC61683):
    - Maximum (@ 50Hz): 99.0%
    - European (@ 50Hz): 98.7%
    - CEC (@ 60Hz): 98.6%

### General specifications

- **Power consumption, night time**: <100 W
- **IP degree of protection**: IP20
- **Enclosure material**: Steel
- **Seismic**: IEEE-693-2005 High performance level, ICC-ES AC156-2012
- **Product weight**: 1495kg (3296lbs)
- **Product dimensions (H x W x D)**: 208.5 x 240.0 x 66.0 cm (82.0 x 94.5 x 26.0 in)
- **Ambient air temperature for operation**: -10°C to 55 °C
- **Operating altitude**: 1000 m, derating for higher altitudes, maximum of 2400 m
- **Relative humidity**: 0 to 95% non-condensing
- **Noise level**: 85.8 dB

### Features and options

- **Type of cooling**: 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 fuse quantities and trip ratings

### Regulatory approvals

- **Safety**: EN/IEC62109-1 and EN/IEC62109-2 (when equipped with the appropriate options), EN51078/IEC62103
- **EMC**: EN/IEC61000-6-2, EN/IEC61000-6-4
- **Conext Core XC Series complies**: French order of April 23, 2008, IEC 61727, IEC62116, BDEW (Germany), CEI-016 (Italy), PREPA MTR, PEA (Thailand)

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

1. **Seismic demand spectrum (SDS) of 1.78g and z/h of 0.1p =1.5 (ground mounted equipment)**
2. **For design purposes, please refer to dimensions in Installation Manual.**
3. **Full power to 50°C, derating above 50°C(for limited DC range). Full power to 45°C, derating above 45°C (for full DC range). For details, refer to the thermal derating application note.**
4. **At 2m from front.**