Schneider Electric PV Box
Optimized solar power conversion system tailored to enhance any PV power plant
Designed for optimal performance in any environment

Introducing a compact, configurable, global reach, solar power conversion system

The Schneider Electric PV Box is a power conversion system combining critical PV system components to achieve optimal power plant performance. It operates between the DC field and the AC MV-grid connection point.

The PV Box is compliant with IEC standard and withstands various climatic environments; therefore the PV Box is compatible with most PV plant projects around the world.

The PV Box includes genuine Schneider Electric equipment including inverters, transformers, and switchgear. It protects both equipment and maintenance staff against environmental conditions and electrical faults, such as those caused by short-circuits, ground faults, or lightning.

The PV Box solution from Schneider Electric allows a reduction of balance-of-system costs, increased reliability, and faster deployment.

*PV Box ST and RT. Different PV Boxes available to your region.
Why choose PV Box?

**Flexible**
- Full grid-interactive functions available with configurable inverters and adaptable to most of MV grid voltages and codes
- Configurable to be optimized for specific project needs (climate, grid, power)
- Adaptable to withstand severe weather conditions: continental, tropical, desert

**Easy to install**
- Solution delivered pre-assembled, configured and tested to reduce on-site labor and project duration
- Ease in transportation: 2 versions RT & ST with compact and light design (minimized width, height and length for easy shipping by road and by sea)

**Easy to service**
- Convenient and safe enclosure design for maintenance purposes by any weather conditions
- Fully monitored solution thanks to Conext Control allows remote fault detection, early alerting of maintenance team and remote actions to minimize downtime
- Separate MV and LV rooms for safe maintenance
- Local Schneider Electric service available in 100+ countries

**Designed for reliability**
- Industrialized solution according to Schneider Electric proven industrial processes
- Equipment and integration made in Schneider Electric factories
- Tested and qualified in harsh environmental conditions (continental, tropical and desert environments)
- Design compliant with IEC 62271-202

**Higher return on investment**
- Optimized CAPEX: Feature level matching exactly customer requirements, reduced transportation and installation costs
- Reduced OPEX: Qualified and reliable design minimizing the risk of failure and the cost of site interventions

**True bankability**
- Warranty from a trusted partner with 178 years of experience
- World leader in industrial power drives, UPS and electrical distribution
- Strong service infrastructure worldwide to support your global needs
PV Box: Optimized landed cost

**PV Box RT**
- PV Box RT optimized for Road gauge standard Transportation
- Concrete basement included
- Walls in sandwich panel

**PV Box ST**
- PV Box ST optimized for Sea Transportation
- Stackable 40 feet High Cube container
- Double door for local health and safety requirement

**Localized PV Box**
- Localized PV Box

**North America**
Temperate and harsh environments withstanding

Mission profiles are defined according to:

- Pollution level (presence of dust, sand or salt)
- External temperature and humidity level

Low polluted mission profile (rural):
- Air inlets equipped with G4 folded filters
- LV room ventilated directly by the inverter fans
- Transformer air cooling is obtained by natural circulation air flow
- 4 temperature ranges (temperate*, temperate/tropical, desert, continental)

Polluted mission profile (industrial, urban, desert, sea coast):
- 2 filtering boxes that contain several filtering layers (canopy, inertial filter screen, G4 folded filters, F9 folded filters)
- LV room ventilation obtained with extra fans
- Transformer air cooling is obtained by natural circulation air flow
- 4 temperature ranges (temperate/tropical, desert, continental, continental hard*)

PV Box mission profiles

Low polluted (rural)
- Temperate RT* (-10° +40°)
- Temperate (-10° +45°)
- Hot (-10° +50°)
- Cold (-20° +45°)

Polluted (industrial, urban, desert, sea coast)
- Temperate (-10° +45°)
- Hot (-10° +50°)
- Cold (-20° +45°)
- Very Cold RT* (-35° +45°)

50°C is the temperature measured under the shadow. When considering sun irradiation, maximal T°C that PV Box withstands is above 50°C

*Available in RT design only.
PV Box : An industrialized solution

Schneider Electric quality and industrial processes are embedded into the PV Box in order to provide reliability and increase ROI of projects.

- All equipment manufactured and integrated in Schneider Electric facilities
- Tested and validated design
- Fully industrialized and controlled process
- 100% of the products are configured and tested at our factories
- Dedicated and controlled supply chain
- Optimized lead time
- Pre-designed configuration
- Prepared and tested MV cables and LV cables harness
- Reduced time for integration work

**DC Box**
- Interconnection / protection of DC sub-arrays
- Optional string acquisition

**Inverter**

**Transformer**
- High-efficiency oil-immersed transformer
- Natural cooling systems to avoid taking off energy from the production
- Equipped with transformer protection relay

**MC cabinet (opt.)**

**LV Box**
- Supply of power for servicing purpose: lighting, socket outlets
- Supply of power to other PV Box equipment: protection relay, monitoring and control, MV switchgear motorization
- Secured power possible

**MV switchgear**
- Circuit breaker protect both transformers and lines
- Switch to ease maintenance
- Cubicles designed to withstand harsh environmental conditions
- Optional motorization for automatic progressive reconnection and remote control

**Monitoring and control cabinet**
- Part of Conext Control monitoring and control system
- Available for Conext Control “Advanced HD”, “Advanced” or “Initial”

**XC inverter**
- Best-in-class efficiency with 98.9% peak, 98.6% weighted EU
- Patent-pending fast-sweep MPPT (maximum power point tracking) algorithm
- Fully configurable grid interactive features enabling easy upgrades throughout the entire lifecycle
- Design based on field-proven Schneider Electric industrial power drives
- Standard 1000 Vdc input for longer string lengths and lower BoS costs
- Integrated Masterpact NW circuit breaker and switch
Configurable solution

PV Box is configurable to stick to project needs and includes only what is really required.

Options:

- Automatic progressive reconnection: the MV switchgear is motorized. A hard-wired mechanism with configurable temporization allows PV Boxes to reconnect one after the other.
- Auxiliary power supply: the auxiliary power is tapped from an inverter output. Supply and installation of a LV/LV transformer.
- Safety kit: insulating rod, gloves, fire extinguisher are supplied. Optional because of particular country requirements.
- Service pack: 1 smoke detector + 1 door contact on each door.
- High salinity: external paint on container and transformer (only on ST version).

Configuration and ordering process is reduced in order to fit short time requirements.
Designed and tested for safety and reliability

PV Box designed and type-tested to climatic chambers

- Work at full load up to +50°C (measured under the shadow) and 1200W/m² of solar irradiation
- Maintain reliable internal temperature for equipment down to -30°C

PV Box designed and type-tested according to the IEC 62271-202

- Internal Arc Type Test
- Thermal rise validation test
- Capability for peak and short time withstand currents validation test
- Sound level validation test
- Degree of protection IP/IK validation test
- EMC compatibility validation test

PV Box RT IEC certificate
Schneider Electric services for PV power plants

Maintenance and support services from Schneider Electric gives you the opportunity to maximize system performance at every stage of its life cycle.

Our teams help you to maximize uptime and efficiency of your PV power plant.

What Schneider Electric solar services can provide?

Schneider Electric’s Service philosophy focuses on consistently developing quality of professional service throughout your PV power plant life duration.

Our services are based on reliability, worldwide coverage, 24/7 support, fast troubleshooting, spare parts management and a quick response time to reduce downtime and maximize PV power plant performance.

Schneider Electric Solar offers full range of service packages

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<td>&gt; PRIORITY</td>
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<td>&gt; ESSENTIAL</td>
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<tr>
<td>&gt; OPTIMUM</td>
<td>✓</td>
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<tr>
<td>&gt; ELITE</td>
<td>✓</td>
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<tr>
<td>&gt; ULTRA</td>
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</table>

*Product warranties are from two to five years.

For more details, we invite you to consult our Solar service brochure.
### Technical specifications: PV Box RT

#### Device short name

**PV Box RT 1080**
**PV Box RT 1260**
**PV Box RT 1360**

#### Electrical specifications

**DC input**
- Voltage range, MPPT: 440 - 885 V (at PF=1)
- Max. input voltage, open circuit: 1000 V
- Max. DC current: 2 x 1280 A

**AC output**
- Nominal power: 1080 kVA
- Nominal voltage: up to 36 kV
- Frequency: 50/60Hz
- Power factor range (PQ dispatch): 0 to 1 leading and lagging

**Equipment**
- Inverters: 2 x XC 540
- DC connection: 2 x DC Box 6 input or 2 x DC Box 10 input (+/-)
- DC fuse range: DC Box 6: 315 A, 350 A, 400 A / DC Box 10: 160 A, 200 A, 250 A
- Transformer type: Schneider Electric Minera oil type ONAN
- Transformer losses: C0Bk (according to EN 50464-1) or compliant with Ecodesign regulation (depending on geographies)
- Medium voltage switchgear U ≤ 24 kV: Schneider Electric RM6 ring main unit type NE-DI with Sepam 10 protection relay
- Medium voltage switchgear 24 kV < U ≤ 36 kV: Schneider Electric Flusarc ring main unit type CB-C with Sepam 10 protection relay

**Optional content**
- Automatic progressive reconnection (2)
- Auxiliary nominal power transformer: 10 kVA / 400 V
- DC input measurement: DC Box monitored
- Monitoring and control: Conext Control™ (by Schneider Electric) monitoring cabinet with secured power supply
- Safety kit: Fire-extinguisher, insulated MV rod and gloves, insulating stool
- Service kit: Contacts on doors and smoke detector (available with Conext Control option)
- Service contract: Worldwide service team - consult your sales representative for service offer

#### External operating conditions

**Temperature**
- Standard temperature range: -10°C / +40°C
- Other temperature ranges: Continental (-20°C / +45°C), Desert / Tropical (-10°C / +50°C), Very cold (-35°C / +45°C)

**Pollution**
- Standard low polluted environment: G4 filters
- Option polluted environment (desert, urban...): External filter box (G4 and F9 filters, fans, speed drives)

**Other conditions**
- Max. relative humidity: 100%
- Max. altitude above sea level: 2000 m
- Max. wind speed: 123 km / h
- Max. snow load: 250 kg / m²
- IP grade LV / MV compartment: IP54
- IP grade transformer compartment: IP23

**General specifications**

**Dimensions and weight**
- During transportation (H x W x D): 3.10 x 2.50 x 8.90 (or 9.70(6)) m
- Assembled on site (H x W x D): 2.65 x 3.15 x 8.90 (or 9.70(6)) m
- Weight approx. with standard content: 24 tons

**Material**
- Basement: Concrete basement included
- Walls and roof: Sandwich panel with mineral wool (50mm) EI 30 minutes

**Cooling**
- LV and MV switchboard compartment: Ensured by inverter fans
- Transformer compartment: Natural

**Regulatory approval**
- Electrical standards: IEC 62271-202, IEC 61439, IEC 62271-200, IEC 60076
- Type-test certification: IEC 62271-202
- Internal arc classification (acc. to IEC 62271-202): IAC-A
- General ventilation filters standard: EN779:2012
- Building standards: Eurocodes

Specifications are subject to change without notice.

(1) Fuses may be ordered separately. (2) To avoid simultaneous reconnection of every PV Boxes and for automatic opening and reclosing on grid voltage loss (grid requirement). (3) Derating: See Conext Core XC inverter application note.

(4) For dust or sand (IEC 62072-1-2:5 ([4.2.4]) size<150 µm and concentration<2 mg / m³). (5) Power derating above 1000 m. Above 2000 m special requirements.

(6) In case of filter box option. (7) Extra fans in filter box only for polluted environment.
## Electrical specifications

**DC input**
- Voltage range, MPPT
  - PV Box ST 1080: 440 - 885 V (at PF=1)
  - PV Box ST 1260: 510 - 885 V (at PF=1)
  - PV Box ST 1360: 550 - 885 V (at PF=1)
- Max. input voltage, open circuit
  - PV Box ST 1080: 1000 V
  - PV Box ST 1260: 1000 V
  - PV Box ST 1360: 1000 V
- Max. DC current
  - PV Box ST 1080: 2 x 1280 A
  - PV Box ST 1260: 2 x 1280 A
  - PV Box ST 1360: 2 x 1280 A

**AC output**
- Nominal power
  - PV Box ST 1080: 1080 kVA
  - PV Box ST 1260: 1260 kVA
  - PV Box ST 1360: 1360 kVA
- Nominal voltage
  - Up to 36 kV for all devices
- Frequency
  - 50/60 Hz for all devices
- Power factor range (PQ dispatch)
  - 0 to 1 leading and lagging for all devices

## Equipment

- **Inverters**
  - 2 x XC 540 (PV Box ST 1080)
  - 2 x XC 630 (PV Box ST 1260)
  - 2 x XC 680 (PV Box ST 1360)
- **DC connection**
  - 2 x DC Box 6 input or 2 x DC Box 10 input (+/-)
- **DC fuse range**
  - DC Box 6: 315 A, 350 A, 400 A
  - DC Box 10: 160 A, 200 A, 250 A
- **Transformer type**
  - Schneider Electric Minera oil type ONAN
- **Transformer losses**
  - C0Bk (according to EN 50464-1) or compliant with Ecodesign regulation (depending on geographies)
- **Medium voltage switchgear**
  - U ≤ 24 kV: Schneider Electric RM6 ring main unit type NE-DI with Sepam 10 protection relay
  - 24 kV < U < 36 kV: Schneider Electric Flusarc ring main unit type CB-C with Sepam 10 protection relay

## Optional content

- **Automatic progressive reconnection**
  - MV circuit breaker motorization, configurable timer
- **Auxiliary nominal power transformer**
  - 10 kVA / 400 V
- **DC input measurement**
  - DC Box monitored
- **Monitoring and control**
  - Conext Control™ (by Schneider Electric) monitoring cabinet with secured power supply
- **Safety kit**
  - Fire-extinguisher, insulated MV rod and gloves, insulating stool
- **Service kit**
  - Contacts on doors and smoke detector (available with Conext Control option)
- **Service contract**
  - Worldwide service team - consult your sales representative for service offer

## External operating conditions

### Temperature
- Standard temperature range: -10°C / +45°C
- Other temperature ranges: Desert / Tropical (-10°C / +50°C)

### Pollution
- Standard low polluted environment: G4 filters
- Option polluted environment (desert, urban...): Internal Filter Box (G4 and F9 filters, fans, speed drives)

### Other conditions
- Max. relative humidity: 100%
- Max. altitude above sea level: 2000 m
- Max. wind speed: 180 km / h
- Max. snow load: 250 kg / m²
- IP grade LV / MV compartment: IP54
- IP grade transformer compartment: IP23

## General specifications

### Dimensions and weight
- During transportation (H x W x D): 2.90 x 2.44 x 12.19 m
- Assembled on site (H x W x D): 2.90 x 3.38 (or 3.28) x 12.19 m
- Weight approx. with standard content: 19 tons

### Material
- Basement: Light basement to be done on site
- Walls and roof: Standard 40” container with insulating layer

### Cooling
- LV and MV switchboard compartment: Ensured by inverter fans
- Transformer compartment: Natural

### Regulatory approval
- Electrical standards: IEC 62271-202, IEC 61439, IEC 62271-200, IEC 60076
- Type-test certification: IEC 62271-202
- Internal arc classification (acc. to IEC 62271-202): IAC-A
- General ventilation filters standard: EN779:2012
- Building standards: Eurocodes

Specifications are subject to change without notice.

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1. Fuses may be ordered separately. 2. To avoid simultaneous reconnection of every PV Boxes and for automatic opening and reclosing on grid voltage loss (grid requirement). 3. For dust or sand (IEC 60721-2-5 (§4.2.4)) size<150 μm and concentration<2 mg / m³. 4. Power derating above 1000 m. Above 2000 m special requirements. 5. In case of filter box option. 6. Extra fans in filter box only for polluted environment.
### PV Box ST+ 2040

#### Device short name
- PV Box ST+ 1620
- PV Box ST+ 1890
- PV Box ST+ 2040

#### Electrical specifications

**DC input**
- Voltage range, MPPT: 440 - 885 V (at PF=1), 510 - 885 V (at PF=1), 550 - 885 V (at PF=1)
- Max. input voltage, open circuit: 1000 V, 1000 V, 1000 V
- Max. DC current: 3 x 1280 A, 3 x 1280 A, 3 x 1280 A

**AC output**
- Nominal power: 1620 kVA, 1890 kVA, 2040 kVA
- Nominal voltage: up to 36 kV, up to 36 kV, up to 36 kV
- Frequency: 50/60 Hz, 50/60 Hz, 50/60 Hz
- Power factor range (PQ dispatch): 0 to 1 leading and lagging, 0 to 1 leading and lagging, 0 to 1 leading and lagging

#### Equipment
- Inverters: 3 x XC 540, 3 x XC 630, 3 x XC 680
- DC connection: 3 x DC Box 6 input or 3 x DC Box 10 input (+/-)
- DC fuse range\(^{(1)}\): DC Box 6: 315 A, 350 A, 400 A / DC Box 10: 160 A, 200 A, 250 A
- Transformer type: Schneider Electric Minera oil type ONAN
- Transformer losses: C0Bk (according to EN 50464-1) or compliant with Ecodesign regulation (depending on geographies)
- Medium voltage switchgear: Schneider Electric RM6 ring main unit type NE-DI with Sepam 10 protection relay
- Medium voltage switchgear: Schneider Electric Fusarc ring main unit type CB-C with Sepam 10 protection relay

#### Optional content
- Monitoring and control: Conext Control™ (by Schneider Electric) monitoring cabinet with secured power supply
- Automatic progressive reconnection\(^{(2)}\): MV circuit breaker motorization, configurable timer
- Auxiliary nominal power transformer: 15 kVA / 400V
- DC input measurement: DC Box monitored
- Safety kit: Fire-extinguisher, insulated MV rod and gloves, insulating stool
- Service kit: Contacts on doors and smoke detector (available with Conext Control option)
- Service contract: Worldwide service team - consult your sales representative for service offer

#### External operating conditions

**Temperature**
- Standard temperature range: -10°C / +45°C\(^{(3)}\)
- Other temperature ranges: Desert (-10°C / +50°C)

**Pollution**
- Standard low polluted environment: G4 filters
- Option polluted environment (desert, urban...): Internal filter box (G4 and F9 filters, fans, speed drives)
- Option saline environment: C5 paint

**Other conditions**
- Max. relative humidity: 100%
- Max. altitude above sea level\(^{(5)}\): 2000 m
- Max. wind speed: 180 km / h
- Max. snow load: 250 kg / m²
- IP grade LV / MV compartment: IP54

#### General specifications

**Dimensions and weight**
- During transportation (H x W x D): 2.90 x 2.44 x 12.19 m
- Assembled on site (H x W x D): 2.90 x 3.38 (or 3.2\(^{(6)}\)) x 12.19 m
- Weight approx. with standard content: < 26 tons

**Material**
- Basement: Light basement to be done on site for PV Box
- Walls and roof: Standard 40” ISO high cube container with insulating layer

**Cooling**
- LV and MV switchboard compartment\(^{(7)}\): Ensured by inverter fans
- Transformer compartment: Natural

**Regulatory approvals**
- Electrical standards: IEC 62271-202, IEC 61439, IEC 62271-200, IEC 60076
- Internal arc classification (acc. to IEC 62271-202): IAC-A
- General ventilation filters standard: EN779:2012
- Building standards: Eurocodes

Specifications are subject to change without notice.

\(^{(1)}\)Fuses may be ordered separately.  \(^{(2)}\)To avoid simultaneous reconnection of every PV Boxes and for automatic opening and reclosing on grid voltage loss (grid requirement).  \(^{(3)}\)Derating: See Conext Core XC inverter application note.  \(^{(4)}\)For dust or sand (IEC 60721-2-5 §4.2.4) size<=150 µm and concentration<=2 mg / m³.  \(^{(5)}\)Power derating above 1000 m. Above 2000 m special requirements.  \(^{(6)}\)In case of filter box option.  \(^{(7)}\)Extra fans in filter box only for polluted environment.
## Electrical specifications

<table>
<thead>
<tr>
<th>Device short name</th>
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<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
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<tr>
<td><strong>DC input</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage range, MPPT</td>
<td>440 - 885 V (at PF=1)</td>
<td>510 - 885 V (at PF=1)</td>
<td>550 - 885 V (at PF=1)</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. DC current</td>
<td>4 x 1280 A</td>
<td>4 x 1280 A</td>
<td>4 x 1280 A</td>
</tr>
<tr>
<td><strong>AC output</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal power</td>
<td>2160 kVA</td>
<td>2520 kVA</td>
<td>2720 kVA</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>up to 36 kV</td>
<td>up to 36 kV</td>
<td>up to 36 kV</td>
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<tr>
<td>Frequency</td>
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<td>50/60 Hz</td>
<td>50/60 Hz</td>
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<tr>
<td>Power factor range (PQ dispatch)</td>
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<td>0 to 1 leading and lagging</td>
<td>0 to 1 leading and lagging</td>
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## Equipment

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<td>Inverters</td>
<td>4 x XC 540</td>
<td>4 x XC 630</td>
<td>4 x XC 680</td>
</tr>
<tr>
<td>DC connection</td>
<td>4 x DC Box 6 input or 4 x DC Box 10 input (+/-)</td>
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<tr>
<td>DC fuse range(1)</td>
<td>DC Box 6: 315 A, 350 A, 400 A / DC Box 10: 160 A, 200 A, 250 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transformer type</td>
<td>Schneider Electric Miner oil type ONAN</td>
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</tr>
<tr>
<td>Transformer losses</td>
<td>C0Bk (according to EN 50464-1) or compliant with Ecodesign regulation(depending on geographies)</td>
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<tr>
<td>Medium voltage switchgear U ≤ 24 kV</td>
<td>Schneider Electric RM6 ring main unit type NE-DI with Sepam 10 protection relay</td>
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<tr>
<td>Medium voltage switchgear 24 kV ≤ U ≤ 36 kV</td>
<td>Schneider Electric Flusarc ring main unit type CB-C with Sepam 10 protection relay</td>
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## Optional content

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<th>PV Box ST+ 2160</th>
<th>PV Box ST+ 2520</th>
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<tr>
<td>Monitoring and control</td>
<td>Conext Control™ (by Schneider Electric) monitoring cabinet with secured power supply</td>
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<tr>
<td>Automatic progressive reconnection(2)</td>
<td>MV circuit breaker motorization, configurable timer</td>
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<tr>
<td>Auxiliary nominal power transformer</td>
<td>15 kVA / 400V</td>
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<tr>
<td>DC input measurement</td>
<td>DC Box monitored</td>
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<tr>
<td>Safety kit</td>
<td>Fire-extinguisher, insulated MV rod and gloves, insulating stool</td>
<td></td>
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<tr>
<td>Service kit</td>
<td>Contacts on doors and smoke detector (available with Conext Control option)</td>
<td></td>
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<tr>
<td>Service contract</td>
<td>Worldwide service team - consult your sales representative for service offer</td>
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</table>

## External operating conditions

### Temperature

<table>
<thead>
<tr>
<th>Category</th>
<th>PV Box ST+ 2160</th>
<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
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</thead>
<tbody>
<tr>
<td>Standard temperature range</td>
<td>-10°C / +45°C(3)</td>
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</tr>
<tr>
<td>Other temperature ranges</td>
<td>Desert (-10°C / +50°C)</td>
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### Pollution

<table>
<thead>
<tr>
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<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
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</thead>
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<tr>
<td>Standard low polluted environment</td>
<td>G4 filters</td>
<td></td>
<td></td>
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<tr>
<td>(Rural and suburban environment)</td>
<td></td>
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</tr>
<tr>
<td>Option polluted environment (desert, urban...)</td>
<td>Internal filter box (G4 and F9 filters, fans, speed drives)</td>
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<tr>
<td>Option saline environment</td>
<td>C5 paint</td>
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### Other conditions

<table>
<thead>
<tr>
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<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
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<tbody>
<tr>
<td>Max. relative humidity</td>
<td>100%</td>
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<tr>
<td>Max. altitude above sea level(4)</td>
<td>2000 m</td>
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<tr>
<td>Max. wind speed</td>
<td>180 km / h</td>
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</tr>
<tr>
<td>Max. snow load</td>
<td>250 kg / m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP grade LV / MV compartment</td>
<td>IP54</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>PV Box ST+ 2160</th>
<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
</tr>
</thead>
<tbody>
<tr>
<td>During transportation (H x W x D)</td>
<td>2.90 x 2.44 x 12.19 m + Transformer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assembled on site (H x W x D)</td>
<td>2.90 x 3.38 (or 3.2(6)) x 12.19 m + Transformer (may change according to selected configuration; confirm with your sales representative)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight approx. with standard content</td>
<td>&lt; 26 tons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Light basement to be done on site for PV Box and Transformer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walls and roof</td>
<td>Standard 40° ISO high cube container with insulating layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>Ensured by inverter fans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transformer</td>
<td>Installed outdoor</td>
<td></td>
<td></td>
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</tbody>
</table>

### Regulatory approvals

<table>
<thead>
<tr>
<th>Category</th>
<th>PV Box ST+ 2160</th>
<th>PV Box ST+ 2520</th>
<th>PV Box ST+ 2720</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical standards</td>
<td>IEC 62271-202, IEC 61439, IEC 62271-200, IEC 60076</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal arc classification (acc. to IEC 62271-202)</td>
<td>IAC-A</td>
<td></td>
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<tr>
<td>General ventilation filters standard</td>
<td>EN779:2012</td>
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<td></td>
</tr>
<tr>
<td>Building standards</td>
<td>Eurocodes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

(1) Fuses may be ordered separately. (2) To avoid simultaneous reconnection of every PV Boxes and for automatic opening and reclosing on grid voltage loss (grid requirement). (3) Derating: See Conext Core XC inverter application note. (4) For dust or sand (IEC 60721-2-5 (§4.2.4)) size<150 µm and concentration<2 mg / m³. (5) Power derating above 1000 m. Above 2000 m special requirements. (6) In case of filter box option. (7) Extra fans in filter box only for polluted environment.
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