**Steca Xtender XTS, XTM and XTH**

**XTS 900-12, 1200-24, 1400-48**  
**XTM 1500-12, 2000-12, 2400-24, 3500-24, 2600-48**  
**XTH 3000-12, 5000-24, 6000-48, 8000-48**

The basic functions of the combined inverters Steca Xtender are the inverter, the battery charger, the switching function and the support of external sources of alternating current. These functions can be combined and controlled fully automatically. The inverters offer outstanding user-friendliness and very good exploitation of the energy available.

All the settings of the Steca Xtender can be remote controlled. When a software with new functions is available, it can be loaded into the system, so the Steca Xtender always stays up to date. Several Steca Xtender can be connected in parallel or to form a three-phase system. That means that up to nine Steca Xtender can work together.

**Product features**
- True sine wave voltage
- Excellent overload capabilities
- Optimal battery protection
- Adjustable integrated battery charger
- Multistage programmable battery charger with PFC
- Automatic load detection
- Standby load detection adjustable over a wide range, starting from a low value
- Parallel connectable
- Best reliability
- Can be used as a back-up system or uninterruptible power supply (UPS)
- Multifunction contact
- Adjustable power sharing
- Reliable and noiseless with any kind of load
- Support of sources of alternating current (Smart Boost)
- Automatic support for peak loads (Power Shaving)
- Ultra-fast transfer relay
- High efficiency
- Control by digital signal processor (DSP)

**Electronic protection functions**
- Deep discharge protection
- Battery overvoltage shutdown
- Overtemperature and overload protection
- Short circuit protection
- Reverse polarity protection by internal fuse (except Steca Xtender XTH 3000)
- Acoustic alarm at deep discharge or overheating

**Displays**
- 5 LEDs show operating states
  - for operation, fault messages

**Operation**
- Main switch
- Adjustable load detection

**Options**
- Type with 115 V / 60 Hz (except Steca Xtender XTH 8000-48)
- Model with protective lacquered mainboard
- Temperature sensor BTS-01 to correct the voltage thresholds according to the current battery temperature

**Certificates**
- Compliant with European Standards (CE)
- RoHS compliant

**Multifunction contacts**
These potential-free contacts can be programmed for many different applications. They can react to any event outside or inside of the inverter (grid availability, battery voltage, fault message ...) They can also be programmed on a timer or can be switched on during particular times (at night, at the weekend ...). In this way, they can serve to start up a generator, to switch off less important loads, to signal a fault, to charge batteries depending on the situation, etc.

**Smart-boost function**
With the smart-boost function, the output of another source of alternating current, such as a power generator or a land connection, can be increased; even when special loads are being used (inductive, asymmetric, with high switch-on current). It is also possible to combine the Steca Xtender with almost all inverters which are already present in order to increase the available output.
### Characterisation of the operating performance

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<tbody>
<tr>
<td><strong>System voltage</strong></td>
<td>12 V</td>
<td>24 V</td>
<td>48 V</td>
<td>12 V</td>
<td>24 V</td>
<td>24 V</td>
<td>48 V</td>
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<td>12 V</td>
<td>24 V</td>
<td>48 V</td>
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<tr>
<td><strong>Continuous power</strong></td>
<td>500 VA / 650 VA</td>
<td>650 VA / 800 VA</td>
<td>750 VA / 900 VA</td>
<td>1,500 VA</td>
<td>2,000 VA</td>
<td>2,000 VA</td>
<td>3,000 VA</td>
<td>2,000 VA</td>
<td>3,500 VA</td>
<td>2,500 VA</td>
<td>4,500 VA</td>
<td>5,000 VA</td>
<td>7,000 VA</td>
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<tr>
<td><strong>Power 30 min.</strong></td>
<td>700 VA / 900 VA</td>
<td>1,000 VA / 1,200 VA</td>
<td>1,500 VA</td>
<td>2,000 VA</td>
<td>2,400 VA</td>
<td>3,500 VA</td>
<td>2,600 VA</td>
<td>4,000 VA</td>
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<td>4,500 VA</td>
<td>5,000 VA</td>
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<td>8,000 VA</td>
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<td><strong>Power 5 sec.</strong></td>
<td>2.3 kVA</td>
<td>2.5 kVA</td>
<td>2.8 kVA</td>
<td>3.4 kVA</td>
<td>4.8 kVA</td>
<td>6 kVA</td>
<td>9 kVA</td>
<td>6.5 kVA</td>
<td>10.5 kVA</td>
<td>7.5 kVA</td>
<td>12 kVA</td>
<td>15 kVA</td>
<td>21 kVA</td>
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<tr>
<td><strong>Max. efficiency</strong></td>
<td>93 %</td>
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<td><strong>Input voltage</strong></td>
<td>&lt; 265 V AC (adjustable: 150 V AC ... 265 V AC)</td>
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<td><strong>Charging current adjustable</strong></td>
<td>0 A ... 35 A</td>
<td>0 A ... 25 A</td>
<td>0 A ... 12 A</td>
<td>0 A ... 70 A</td>
<td>0 A ... 100 A</td>
<td>0 A ... 55 A</td>
<td>0 A ... 90 A</td>
<td>0 A ... 30 A</td>
<td>0 A ... 50 A</td>
<td>0 A ... 160 A</td>
<td>0 A ... 140 A</td>
<td>0 A ... 100 A</td>
<td>0 A ... 120 A</td>
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<tr>
<td><strong>Max. current on transfer system</strong></td>
<td>16 A</td>
<td>50 A</td>
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<tr>
<td><strong>Input frequency</strong></td>
<td>45 Hz ... 65 Hz</td>
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<tr>
<td><strong>Battery voltage</strong></td>
<td>9.5 V ... 17 V</td>
<td>19 V ... 34 V</td>
<td>38 V ... 68 V</td>
<td>9.5 V ... 17 V</td>
<td>9.5 V ... 17 V</td>
<td>19 V ... 34 V</td>
<td>19 V ... 34 V</td>
<td>38 V ... 68 V</td>
<td>9.5 V ... 17 V</td>
<td>19 V ... 38 V</td>
<td>68 V</td>
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<td><strong>AC output side</strong></td>
<td>230 V AC, +/- 2 % / 190 V AC ... 245 V AC (true sine wave) / 120 V AC</td>
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<tr>
<td><strong>Output frequency</strong></td>
<td>50 Hz, adjustable: 45 Hz ... 65 Hz +/- 0.05 % (controlled)</td>
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<td><strong>Total harmonic distortion</strong></td>
<td>&lt; 2 %</td>
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<td><strong>Load detection (standby)</strong></td>
<td>2 W ... 25 W</td>
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<tr>
<td><strong>Operating conditions</strong></td>
<td>-20 °C ... +55 °C</td>
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<tr>
<td><strong>Power Smart-Boost 30 min.</strong></td>
<td>900 VA</td>
<td>1,200 VA</td>
<td>1,400 VA</td>
<td>1,500 VA</td>
<td>2,000 VA</td>
<td>2,400 VA</td>
<td>3,500 VA</td>
<td>2,600 VA</td>
<td>4,000 VA</td>
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<td>6,000 VA</td>
<td>8,000 VA</td>
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<tr>
<td><strong>Power input balance adjustment</strong></td>
<td>2 A ... 16 A</td>
<td>1 A ... 50 A</td>
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<tr>
<td><strong>Multifunction contact adjustable</strong></td>
<td>2 independent contacts 16 A / 250 V AC (potential free change-over contacts)</td>
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<td><strong>Degree of protection</strong></td>
<td>IP 54</td>
<td>IP 20</td>
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<tr>
<td><strong>Dimensions (X x Y x Z)</strong></td>
<td>210 x 310 x 110 mm</td>
<td>323 x 463 x 130 mm</td>
<td>300 x 497 x 250 mm</td>
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<tr>
<td><strong>Weight</strong></td>
<td>8.2 kg</td>
<td>9 kg</td>
<td>9.3 kg</td>
<td>15 kg</td>
<td>18.5 kg</td>
<td>16.2 kg</td>
<td>21.2 kg</td>
<td>16.2 kg</td>
<td>22.9 kg</td>
<td>34 kg</td>
<td>40 kg</td>
<td>42 kg</td>
<td>46 kg</td>
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<tr>
<td><strong>Cooling principle</strong></td>
<td>-</td>
<td>fan from 55 °C</td>
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<td><strong>Parallel connection possible</strong></td>
<td>3 x 1 phase and three-phase</td>
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**Steca RCC-02**
Remote control and display (incl. 2 m cable)
Suitable for wall-mounting.

**Steca RCC-03**
Remote control and display (incl. 2 m cable)
Suitable for rack installation.

**Steca BTS-01**
Battery temperature sensor (incl. 5 m cable)
This sensor allows the battery voltages to be adjusted to the battery temperature.

**Steca X-Connect system**
Prewired mounting structure for devices from the Steca Xtender XTS series.

**Steca RCC-03**
Remote control and display (incl. 2 m cable)
Suitable for rack installation.

**Steca BTS-01**
Battery temperature sensor (incl. 5 m cable)
This sensor allows the battery voltages to be adjusted to the battery temperature.

**TCM-01**
Time and communication module for devices from the Steca Xtender XTH series.

**Communications cable**
Connection to the three-phase system or to the parallel connection CAB-RJ45-2 (2 m)
This is used to connect several inverters together to a three-phase system or a system connected in parallel.

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**Steca X-Connect system**
Prewired mounting structure for devices from the Steca Xtender XTH series.

**ECF-01**
Integrated cooling unit for devices from the Steca Xtender XTS series.