

Steca Xtender

XTS 900-12, XTS 1200-24, XTS 1400-48, XTM 1500-12, XTM 2000-12, XTM 2400-24, XTM 3500-24, XTM 2600-48, XTM 4000-48, XTH 3000-12, XTH 5000-24, XTH 6000-48, XTH 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.

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 charger 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.

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
- Short circuit protection
- Overtemperature and overload 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

Operation

- Main switch
- Adjustable load detection

Options

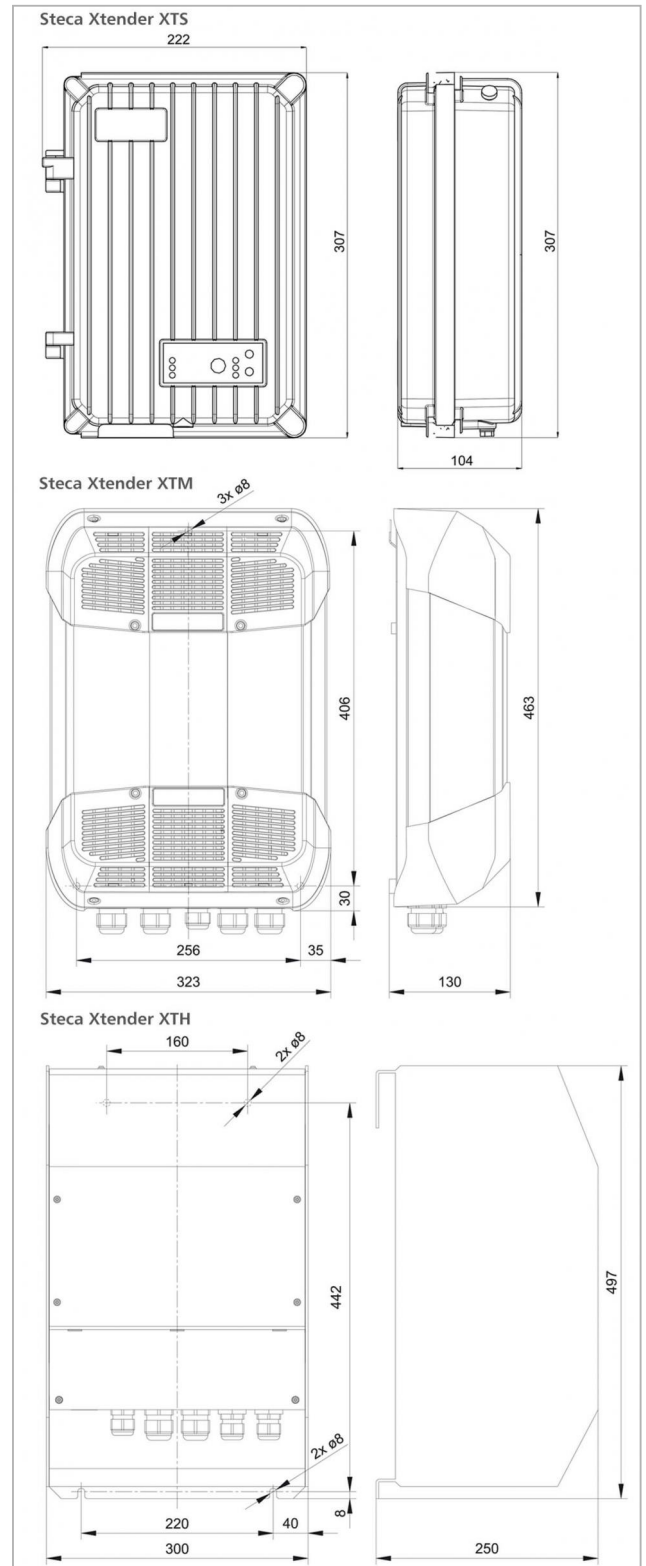
- Type with 115 V / 60 Hz (except Steca Xtender XTH 8000-48)
- Model with protective lacquered mainboard

Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Made in Europe

Accessories

- Remote control and display Steca RCC-02
- Remote control and display Steca RCC-03
- Steca X-Connect system
- Battery temperature sensor Steca BTS-01
- Integrated cooling unit ECF-01
- Communications cable
- Steca BSP-500/1200



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Characterisation of the operating performance													
System voltage	12 V	24 V	48 V	12 V	12 V	24 V	24 V	48 V	48 V	12 V	24 V	48 V	48 V
Continuous power	500 VA	650 VA	750 VA	1500 VA	2000 VA	2000 VA	3000 VA	2000 VA	3500 VA	2500 VA	4500 VA	5000 VA	7000 VA
Continuous power (with ECF-01)	650 VA	800 VA	900 VA										
Power 30 min.	700 VA	1000 VA	1200 VA	1500 VA	2000 VA	2400 VA	3500 VA	2600 VA	4000 VA	3000 VA	5000 VA	6000 VA	8000 VA
Power 30 min. (with ECF-01)	900 VA	1200 VA	1400 VA										
Power 5 sec.	2300 VA	2500 VA	2800 VA	3400 VA	4800 VA	6000 VA	9000 VA	6500 VA	10500 VA	7500 VA	12000 VA	15000 VA	21000 VA
Max. efficiency	93 %	93 %	93 %	93 %	93 %	94 %	94 %	96 %	96 %	93 %	94 %	96 %	96 %
Own consumption standby	1.4 W	1.5 W	1.6 W	1.4 W	1.4 W	1.6 W	1.6 W	2.0 W	2.1 W	1.4 W	1.8 W	2.2 W	2.4 W
Own consumption ON	7.0 W	8.0 W	8.0 W	8.0 W	10.0 W	9.0 W	12.0 W	10.0 W	14.0 W	14.0 W	18.0 W	22.0 W	30.0 W
Power Factor Correction (PFC) according	EN 61000-3-2												
Acoustic level without ventilation	40 dB												
Acoustic level with ventilation	45 dB												
Input side													
Input voltage	< 265 V AC (adjustable: 150 V AC ... 265 V AC)												
Charging current adjustable 0 A ...	35 A	25 A	12 A	70 A	100 A	55 A	90 A	30 A	50 A	160 A	140 A	100 A	120 A
Max. current on transfer system	16 A	16 A	16 A	50 A	50 A	50 A	50 A	50 A	50 A	50 A	50 A	50 A	50 A
Input frequency	45 Hz ... 65 Hz												
AC output side													
Output voltage	230 V AC $\pm 2\%$ / 190 V AC ... 245 V AC (true sine wave) / 120 V AC (special version, please note on order)												
Output frequency	50 Hz, adjustable: 45 Hz ... 65 Hz $\pm 0.05\%$ (crystal controlled)												
Total harmonic distortion	< 2 %												
Load detection (standby)	2 W ... 25 W												
Battery side													
Battery voltage	9.5 V ... 17 V	19 V ... 34 V	38 V ... 68 V	9.5 V ... 17 V	9.5 V ... 17 V	19 V ... 34 V	19 V ... 34 V	38 V ... 68 V	38 V ... 68 V	9.5 V ... 17 V	19 V ... 34 V	38 V ... 68 V	38 V ... 68 V
Operating conditions													
Ambient temperature	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +55 °C	-20 °C ... +50 °C
Fitting and construction													
Power Smart-Boost 30 min.	900 VA	1200 VA	1400 VA	1500 VA	2000 VA	2400 VA	3500 VA	2600 VA	4000 VA	3000 VA	5000 VA	6000 VA	8000 VA
Input current balance adjustment	2 A ... 16 A	2 A ... 16 A	2 A ... 16 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A	1 A ... 50 A
Multifunction contact adjustable	2 independent contacts 16 A / 250 V AC (potential free change-over contacts)												
Degree of protection	IP 54	IP 54	IP 54	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Dimensions (X x Y x Z)	222 x 307 x 104 mm	222 x 307 x 104 mm	222 x 307 x 104 mm	323 x 463 x 130 mm	323 x 463 x 130 mm	323 x 463 x 130 mm	323 x 463 x 130 mm	323 x 463 x 130 mm	323 x 463 x 130 mm	300 x 497 x 250 mm	300 x 497 x 250 mm	300 x 497 x 250 mm	300 x 497 x 250 mm
Weight	8,2 kg	9 kg	9,3 kg	15 kg	18,5 kg	16,2 kg	21,2 kg	16,2 kg	22,9 kg	34 kg	40 kg	42 kg	46 kg
Cooling principle	convection	convection	convection	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C	fan from 55 °C
Parallel connection possible	3 x 1 phase and three-phase												