

Sunmaster XS



- Flexible design
- High yield
- Advanced monitoring
- Easy and safe installation
- Reliable

The sun as your very own power system



More power from the sun

More power from the sun under all conditions, with an exceptional degree of reliability. As one of the pioneers in the grid connected solar industry, Mastervolt has a long track record in developing and manufacturing high-quality inverters that transform solar power into valuable energy. The Sunmaster XS series is the result of 20 years of expertise and practical experience, making sure you get the most out of your PV system.

Flexible design

- Compatible with any type of solar module
- Country selection via LCD
- Applicable in both indoor and protected outdoor environment (IP44)
- Integrated transformer

High yield

- 100% power up to 45 °C
- High efficiency using HF technology
- More production due to early startup and late shutdown
- Unique adaptive cooling technology

Advanced monitoring

- Large user-friendly LCD
- 30 day kWh memory as standard
- Free plug & play software
- Extensive monitoring solutions available

Easy and safe installation

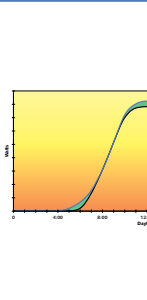
- MC connections
- Mounting brackets included
- Integrated DC switch available
- Lightweight

Reliable

- Standard 5 years warranty with optional 10 or 20 years
- Designed based on a proven Mastervolt concept
- Long life due to advanced cooling
- Outstanding price/quality ratio

More information?

Feel free to contact Mastervolt or one of our business partners, or visit www.mastervolt.com



Warranty

Model	XS2000
Article number	E310020
Serial number	WB1200
Equipment no.	1015073
Starting date	25-08-20
Warranty period	10 year

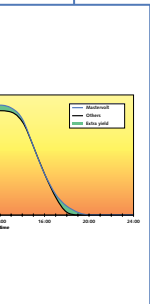
Mastervolt BV declares that the holder of this product is entitled to a 10-year warranty for the entire product only. For more information, visit www.mastervolt.com.

Mastervolt Sunmaster XS

supreme benefits

High yield

The MPP trackers (99.9%) ensure a maximum output from the solar panels, even at low light conditions. Start-up only requires 5 to 10 W, the inverters will start working early in the morning until the end of the day. The active cooling provides full power output in temperatures up to 45 °C.



Easy and safe installation

A XS2000 only weighs only 10 kg, and the XS6500 just 15 kg. The country setting is programmed on the display and the integrated DC switch also reduces installation time. A mounting bracket is included. The PC monitoring software is plug & play.



Multifunctional

The IP44 protection allows the XS inverters to be installed outside under a roof. The exceptionally large voltage range and the HF transformer allow combinations with crystalline, amorphous and thin film PV panels.



Advanced monitoring

The Mastervolt XS series stores the daily energy production of your solar power system (max. 30 days) for reading out on PC or laptop. Optional monitoring via Internet is available.



Superb value for money

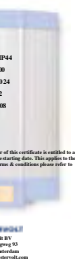
The practical display informs you of the actual situation, and has an energy yield memory of 30 days. An integrated DC switch and standard RS485 data port connection complete the XS package.



Guaranteed reliability

Besides the standard warranty of 5 years, a warranty of 10 or 20 years is available, underlining our confidence in the product's reliability; an indispensable quality of sustainable power systems.

certificate



Technical specifications



Model	XS2000	XS3200	XS4300	XS6500
Article number	I31012000	I31013200	I31014300	I31016500

GENERAL

Operating temperature	-20 to 60 °C, full power up to 45 °C ambient air temperature, derating -3%/°C above 45 °C			
Relative humidity	maximum 95% non-condensing; PCB has anti-moisture coating			
Protection degree	IP44			
Safety class	class I (metal housing with earth connection)			
Galvanic isolation	yes (safety transformer)			
Dimensions (HxWxD)	545x356x145 mm	545x356x145 mm	545x356x145 mm	725x356x145 mm
Weight	10 kg	10 kg	10 kg	15 kg
Product warranty	5 year			

SOLAR INPUT (DC)

Recommended PV power range	1300 – 2000 Wp	2200 – 3300 Wp	2900 – 4350 Wp	4000 – 7000 Wp
Nominal input power	1590 W DC	2650 W DC	3490 W DC	5265 W DC
Maximum input power	1670 W DC	2780 W DC	3660 W DC	5525 W DC
Start-up power	5 W	7 W	7 W	10 W
Operating voltage range	100 – 450 V DC	100 – 600 V DC	100 – 550 V DC	100 – 600 V DC
MPP voltage range at nom. power	145 – 360 V DC	180 – 480 V DC	230 – 440 V DC	180 – 480 V DC
Maximum voltage	450 V DC	600 V DC	550 V DC	600 V DC
Number of inputs	1	1	1	2 (independent)
Rated current	11 A	15 A	15 A	2 x 15 A or 1 x 30 A
MPP tracker	1 MPP tracker	1 MPP tracker	1 MPP tracker	2 MPP trackers
MPP efficiency	99.9% (Fraunhofer algorithm)			
DC connection	2 sets of MultiContact (4 mm) connectors			

GRID OUTPUT (AC)

Voltage	230 V AC single phase (184 – 265 V, country dependent)			
Nominal output power at 45 °C	1500 W	2500 W	3300 W	5000 W*
Maximum output power	1575 W	2625 W	3465 W	5250 W*
Nominal current	8 A	13 A	15 A	25 A
Frequency	45 – 65 Hz, country dependent			
Power factor	> 0.99 at full power			
Harmonic distortion (THD)	< 3% at full power			
Standby power	< 0.5 W			
European efficiency	94.4% at 300 V	94.3% at 400 V	94.6% at 370 V	94.5% at 400 V
Maximum efficiency	95.7%	95.4%	95.6%	95.5%
AC connection	2.5 – 4 mm ² terminal block			
Fuse	internal PCB fuse			

MONITORING

User interface	integrated LCD display with backlight, 4 buttons and bright diagnostic LED. All relevant AC and DC values plus diagnostic messages
External communication	2 surge protected RS485 connections, 2 MasterBus connections. Max. 20 XS units can be connected to 1 Data Control Pro datalogger.

SAFETY REGULATIONS

General	galvanic separation between DC and AC side by means of a HF safety transformer
Island protection	redundant voltage and frequency window monitoring. Independent cut-off by means of 2-pole relay and solid state switch according to VDE V 0126-1-1:2006.
Temperature protection	thermal switch-off at internal over temperature
Safety devices DC side	• isolation resistance monitoring • overvoltage detection • inverse polarity protection • current limitation • transients / surges (varistors) • overload protection
Safety devices AC side	• current limitation • DC injection protection • short circuit protection (ceramic fuse) • over-/undervoltage and over-/underfrequency monitoring • active anti-islanding algorithm
DC current injection	VDE0126-1-1 / DK5940 / G83 / KSC8536 compliant

REGULATIONS AND DIRECTIVES

CE conformity	yes
Electrical safety	EN 60950-1
National grid interface requirements	VDE 0126-1-1 / DK5940 / RD1663-2000 / K SC 8536 / G83-1 compliant

* In Germany 4600 W, single phase.

Subject to alterations. For our complete product range please visit www.mastervolt.com