

# SX Mark III

## Series solar inverters

The Autarco SX series Mark III inverters offer the latest in grid tied inverter technology. The inverter is a key element in a solar PV power plant and these inverters provide the reliable basis for Autarco's unique kWh guarantee.

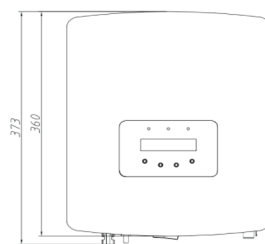
- + Eligible for Autarco's insured kWh Guarantee
- + Reduced Fire Risk due to Integrated AFCI
- + Extremely lightweight and silent
- + Wide MPP tracker range
- + Waterproof IP66 enclosure



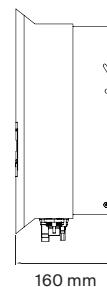
## General characteristics

<b>Dimensions (W x H x D)</b>	310 x 373 x 160mm
<b>Net Weight</b>	7.4 - 7.7 kg
<b>Mounting</b>	Wall bracket
<b>Max. site altitude</b>	4000m
<b>IP protection class</b>	IP66
<b>Isolation type</b>	Transformerless
<b>Cooling principle</b>	Natural convection
<b>Noise level, typically</b>	< 20dBA
<b>Product guarantee</b>	5 year standard (10 & 15 year optional)
<b>Consumption monitoring</b>	Optional with meter
<b>Communication interfaces</b>	1 x RS485
<b>Monitoring Options</b>	WiFi, 4G and Ethernet
<b>DC switch</b>	Integrated
<b>Power Export Limitation</b>	Integrated
<b>Safety / EMC Standards</b>	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4

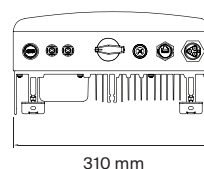
Front



Side



Bottom



Bracket



# Input characteristics

	S2.SX700-MIII	S2.SX1000-MIII	S2.SX1500-MIII	S2.SX2000-MIII	S2.SX2500-MIII	S2.SX3000-MIII	S2.SX3600-MIII
Recommended Max. PV input power (W)	1100	1500	2300	3000	3800	4500	5400
Max. DC voltage (V)	600	600	600	600	600	600	600
Rated DC voltage (V)	200	200	200	330	330	330	330
MPP tracker voltage range (V)	50-500	50-500	50-500	80-500	80-500	80-500	80-500
Start-up DC voltage (V)	60	60	60	90	90	90	90
Number of MPP trackers	1	1	1	1	1	1	1
Max. DC current per MPPT (A)	14	14	14	14	14	14	19
Max. short circuit current (A)	22	22	22	22	22	22	24
Number of DC connections per MPPT	1	1	1	1	1	1	2
DC connection type	MC4	MC4	MC4	MC4	MC4	MC4	MC4
Turn on power (W)	10	10	10	22	22	22	30

# Output characteristics

	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
AC connection	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
Power connection	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase
Rated AC power (W)	700	1000	1500	2000	2500	3000	3600
Max. AC power (W)	770	1100	1650	2200	2750	3300	3600
Rated Grid Voltage (V)	1P/N/PE, 220V / 230 V						
Rated Grid Frequency (Hz)	50 Hz / 60 Hz						
Grid connection standards	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA						
Rated AC current (A)	3.2 / 3.0	4.5 / 4.3	6.8 / 6.5	9.1 / 8.7	11.4 / 10.9	13.6 / 13.0	16.0
Max. AC current (A)	4.4	5.2	8.1	10.5	13.3	15.7	16.0
Power factor	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8
Harmonic distortion (%)	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Night-time power consumption (W)	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Harmonic distortion (%)	6	6	6	6	6	6	6

# Efficiency

Max. efficiency	96.6 ~ 97.30%
EU efficiency	95.30 ~ 96.80%
MPPT efficiency	>99.50%

# Other characteristics

Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 100%

# Protection

DC overvoltage protection	Integrated
DC reverse polarity protection	Integrated
Short circuit protection	Integrated
Grid monitoring	Integrated
Residual current detection	Integrated
Insulation resistance monitoring	Integrated
Temperature protection	Integrated
Islanding protection	Integrated
Arc-fault circuit interrupter	Integrated

