

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.

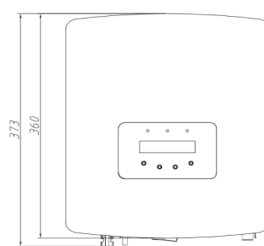
- + Eligible for Autarco's insured kWh Guarantee
- + Reduced Fire Risk due to Integrated AFCI
- + Extremely lightweight and silent
- + Wide MPP tracker range
- + Waterproof IP66 enclosure



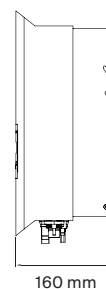
General characteristics

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

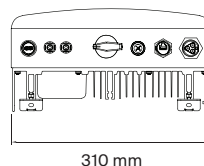
Front



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

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

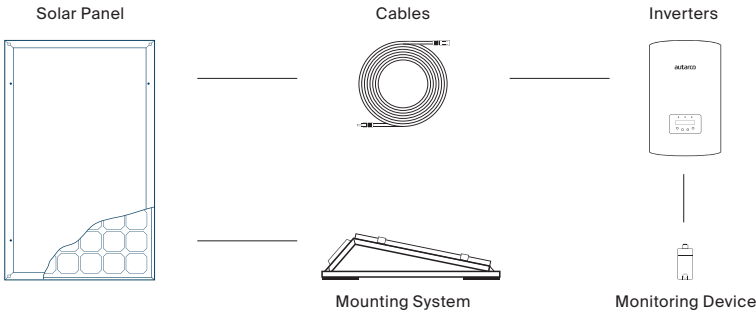
Max. efficiency	96.6 ~ 97.30%
EU efficiency	95.30 ~ 96.80%
MPPT efficiency	>99.50%

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



The specifications contained in this datasheet may deviate slightly from our actual products due to on-going product improvement and are subject to change at any time without prior notice.