

autarco

SX series solar inverters



Benefits

The Autarco SX series inverters are the smallest of its kind and offer the best and most reliable performance in its class. A meticulous and fully automated production process ensures a quality and reliability that is unprecedented in the industry which has resulted in a proven track record for extremely low product faults.

These inverters feature a solid waterproof enclosure, Xtreme series PCB with only the highest grade electrical components, easy installation, standard 10 year warranty and monitoring.

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.

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Features

- Extremely small and lightweight
- Low start voltage
- Wide MPP tracker range
- Waterproof IP65 enclosure
- Standard 5 year warranty extendable to 15 years

Quality certificates

- AS 4777, C10/11, CE, EN 50438¹, G59/2, G83/1-1,
- IEC 61727, IEC 62116
- IEC 62109, VDE0126-1-1, VDE-AR-N 4105
- Solarif



DS-701-EN-V0.1

Input characteristics

	SX700	SX1000	SX1500	SX2000	SX2500
Max. PV input power (W)	900	1200	1800	2400	3000
Max. DC voltage (V)	450	450	450	500	500
MPP tracker voltage range (V)	50-400	50-400	50-400	50-400	50-400
Start-up DC voltage (V)	60	60	60	60	60
Number of MPP trackers	1	1	1	1	1
Max. DC current per MPPT (A)	10	10	15	15	15
Number of DC connections per MPPT	1	1	1	1	1
DC connection type	MC4	MC4	MC4	MC4	MC4
Turn on power (W)	10	10	10	10	10

Output characteristics

AC connection	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
Power connection	1-phase	1-phase	1-phase	1-phase	1-phase
Rated AC power (W)	700	1000	1500	2000	2500
Max. AC power (W)	800	1100	1650	2200	2500
Grid voltage range (V)	According to VDE 0126-1-1, G83/1, AS4777, ENEL2010, RD1663, C10/11				
Grid frequency range (Hz)	According to VDE 0126-1-1, G83/1, AS4777, ENEL2010, RD1663, C10/11				
Rated AC current (A)	3.0	4.3	6.5	8.7	10.9
Max. AC current (A)	4.4	6.1	9.2	12.2	13.9
Power factor	0.99	0.99	0.99	0.99	0.99
Harmonic distortion	< 3%	< 3%	< 3%	< 3%	< 3%
Nighttime power consumption (W)	< 1	< 1	< 1	< 1	< 1
Standby power consumption (W)	6	6	6	6	6
Max. site altitude (m)	4000	4000	4000	4000	4000

Efficiency

Max. efficiency	96.70%
Euro efficiency	96.20%
MPPT efficiency	>99%

Safety 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

General characteristics

Dimensions (W X H D)	270 x 433 x 105mm
Net weight	5.2 - 5.6kg
Mounting	Wall bracket
Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 100%
IP protection class	IP65 conform IEC 60529
Isolation type	Transformerless
Cooling principle	Convection
Noise level, typically	< 30dBA
LED indicators	3
LCD display	16 x 2 characters
Communication interfaces	RS485
Optional interfaces	WiFi, GPRS, Z-wave, LAN
Warranty	5 year extendable to 15 years
DC switch	Optionally integrated