

autarco

MX series solar inverters



Benefits

The Autarco MX series inverters 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.

Features

- Low start voltage
- Two independent MPP trackers
- Waterproof IP65 enclosure
- Standard 10 year warranty
- Easy integration in Z-wave based Smart Home systems

Quality certificates

- AS 4777, C10/11, CE, EN 50438¹, G59/3, G83/2
- IEC 61727, IEC 62116
- IEC 62109, VDE0126-1-1, VDE-AR-N 4105
- Solarif



Input characteristics

	MX3000	MX3600	MX4600	MX5000
Max. PV input power (W)	3500	4200	5300	5800
Max. DC voltage (V)	600	600	600	600
MPP tracker voltage range (V)	100-500	100-500	100-500	100-500
Start-up DC voltage (V)	120	120	120	120
Number of MPP trackers	2	2	2	2
Max. DC current per MPPT (A)	10	10	15	15
Number of DC connections per MPPT	1	1	1	1
DC connection type	MC4	MC4	MC4	MC4
Turn on power (W)	10	10	10	10

Output characteristics

AC connection	Plug-in	Plug-in	Plug-in	Plug-in
Power connection	1-phase	1-phase	1-phase	1-phase
Rated AC power (W)	3000	3600	4600	5000
Max. AC power (W)	3300	4000	5000	5000
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)	13	15.7	20	21.7
Max. AC current (A)	15.7	16	23.8	23.8
Power factor	0.99	0.99	0.99	0.99
Harmonic distortion	< 2%	< 2%	< 2%	< 2%
Nighttime power consumption (W)	< 1	< 1	< 1	< 1
Standby power consumption (W)	6	6	6	6

Efficiency

Max. efficiency	97.80%
Euro efficiency	97.00%
MPPT efficiency	99.00%

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) (mm)	339 x 565 x 172
Net weight	13.8 - 15.8kg
Mounting	Wall bracket
Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 98%
Max. site altitude	up to 4000m
IP protection class	IP65 according 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, Z-wave, GPRS, LAN
Warranty	10 year
DC switch	Optionally integrated