

# LQ Mark II series solar inverters

# autarco

The Autarco LQ series inverters offer the best and most reliable performance in its class. The upgraded MII models are built with the most advanced components available in 2019, resulting in improved processing speed, higher efficiency and superior performance in low light.



Eligible for Autarco's insured kWh Guarantee



Compact and lightweight



Two independent MPP trackers



Extremely wide MPPT voltage range



Waterproof IP65 enclosure



## QUALITY CERTIFICATES

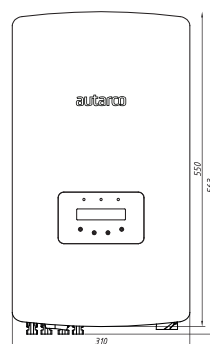
- ♦ AS 4777, C10/11, CE, EN 50549, G59/3
- ♦ IEC 61727, IEC 62116
- ♦ IEC 62109, VDE0126-1-1, VDE-AR-N 4105



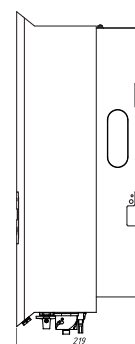
## GENERAL CHARACTERISTICS

Warranty	Standard 5 years extendable to 15 years
Dimensions (W x H x D)	310 x 563 x 219 mm
Mounting	Wall bracket
Weight	18.9 - 19.8 kg
Max. site altitude	4000m
IP protection class	IP65 according IEC 60529
Isolation type	Transformerless
Cooling principle	Convection with smart fan cooling
Noise level, typical	< 30dBA, <60dBA with cooling fan
LED indicators	3
LCD display	2 x 20 characters
Communication interfaces	1 x RS485
Optional interfaces	WiFi, LAN, Z-Wave, GPRS
DC switch	Integrated (optionally excluded)

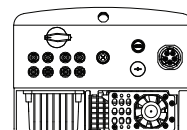
Front



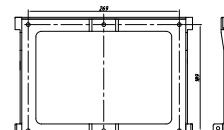
Side



Bottom



Bracket



INPUT CHARACTERISTICS

	S2.LQ12000(S)-MII	S2.LQ15000(S)-MII	S2.LQ17000(S)-MII	S2.LQ20000(S)-MII
Max. PV input power (W)	14500	18000	20400	24000
Max. DC voltage (V)	1000	1000	1000	1000
MPP tracker voltage range (V)	160-850	160-850	160-850	160-850
Start-up DC voltage (V)	180	180	180	180
Number of MPP trackers	2	2	2	2
Max. DC current per MPPT (A)	22	22	22	22
Max. short circuit current (A)	34.4	34.4	34.4	34.4
Number of DC connections per MPPT	2	2	2	2
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	3-phase	3-phase	3-phase	3-phase
Rated AC power (W)	12000	15000	17000	20000
Max. AC power (W)	13200	16500	18700	22000
Grid voltage range (V)	According to VDE 0126-1-1, G59/3, AS4777, NB/T32004			
Grid frequency range (Hz)	According to VDE 0126-1-1, G59/3, AS4777, NB/T32004			
Rated AC current (A)	17.3	21.7	24.6	28.9
Max. AC current (A)	19.1	23.8	27.0	31.8
Power factor	0.8..1..0.8	0.8..1..0.8	0.8..1..0.8	0.8..1..0.8
Harmonic distortion	< 1.5%	< 1.5%	< 1.5%	< 1.5%
Power consumption during night (W)	< 1	< 1	< 1	< 1
Power consumption during stand-by (W)	6	6	6	6
DC current injection (mA)	< 20	< 20	< 20	< 50

EFFICIENCY

Max. efficiency	98.7 %
Euro efficiency	98.1 %
MPPT efficiency	>99.5 %

PROTECTION

DC overvoltage protection	Integrated
DC reverse polarity protection	Integrated
Short circuit protection	Integrated
Grid monitoring	Integrated
Insulation resistance monitoring	Integrated
Temperature protection	Integrated
DC disconnection	Integrated
Arc-fault circuit interrupter	Optional

OTHER CHARACTERISTICS

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

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.

