






LH series hybrid solar inverters

autarco

The Autarco LH series hybrid inverters offer the best and most reliable performance in its class. These inverters combine a grid-tied 3-phase solar PV inverter with high voltage lithium-ion battery backup ensuring a versatile storage solution.

-  Eligible for Autarco's insured kWh Guarantee
-  Compatible with HV Lithium-ion batteries
-  Two independent MPP trackers
-  Extremely wide MPPT voltage range
-  Off-grid back up and energy management functions



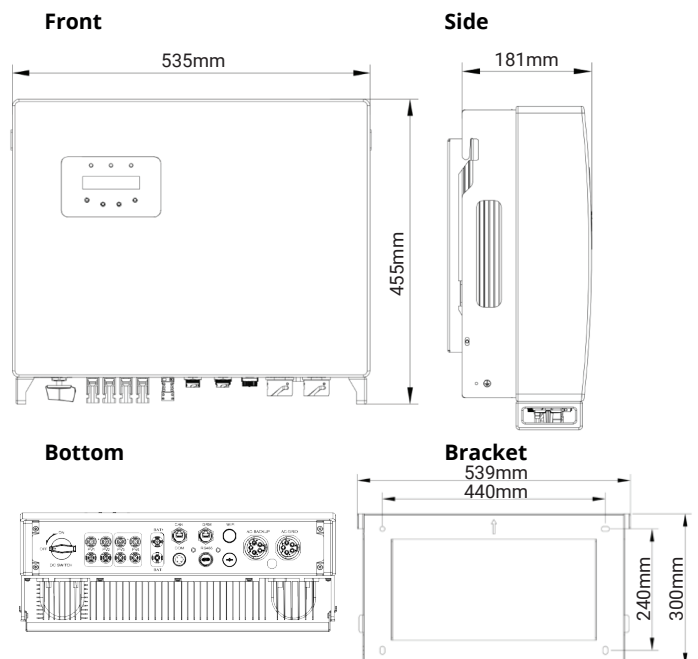
QUALITY CERTIFICATES

- ◆ EN 50549-1, EN 50549-2
- ◆ EN 61000-6-1/3 (CE), IEC 62109-1/2
- ◆ VDE 4105, VDE 0126, C10/11



GENERAL CHARACTERISTICS

Warranty	Standard 5 yrs. extendable to 15 yrs.
Dimensions (W x H x D)	535 x 455 x 181 mm
Mounting	Wall bracket
Weight	25.1 kg
Max. site altitude	4000m
IP protection class	IP65
Topology	Transformerless
Cooling principle	Natural convection
Compatible battery types	Lithium-ion
LED indicators	3
LCD display	2 x 20 characters
Communication interfaces	1 x RS485, (Battery) 1 x CAN (Battery)
Optional interfaces	WiFi, GPRS
DC / AC connection	MC4 / Quick connection plug



PV INPUT CHARACTERISTICS

	S2.LH5000	S2.LH6000	S2.LH8000	S2.LH10000
Max. input PV power (W)	8000	9600	12800	16000
Max. input voltage (V)	1000	1000	1000	1000
MPPT voltage range (V)	200 - 850	200 - 850	200 - 850	200 - 850
Start-up DC voltage (V)	160	160	160	160
Number of MPP trackers	2	2	2	2
Max. DC current per MPPT (A)	13 / 13	13 / 13	26 / 13	26 / 26
DC connections per MPPT	1	1	2/1	2
DC connection type	MC4	MC4	MC4	MC4
Max. short circuit current (A)	19.5 / 19.5	19.5 / 19.5	39 / 19.5	39 / 39

OUTPUT CHARACTERISTICS

AC connection	380 / 400 VAC	380 / 400 VAC	380 / 400 VAC	380 / 400 VAC
Power connection	3-phase	3-phase	3-phase	3-phase
Rated AC power (W)	5000	6000	8000	10000
Rated AC current (A) at 380V/400V	7.6 / 7.3	9.2 / 8.7	12.2 / 11.6	15.2 / 14.5
Max. AC power (W)	5500*	6600*	8800*	10000
Max. AC current (A) at 380V/400V	8.4 / 8	10 / 9.7	13.4 / 12.9	16.7 / 14.7
Grid voltage range (V) & frequency range (Hz)	TBD			
Power factor	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8	0.8...1...0.8
Harmonic distortion (%)	<2	<2	<2	<2
Cooling principle	Convection	Convection	Convection	Convection
Peak apparent output power for 60 seconds (W)	10000	12000	16000	16000

* For Belgium market the C10/11 grid setting is required. This results in the Max. AC power being equal to the Rated AC power.

BATTERY

Battery voltage range (V)	160 - 600	160 - 600	160 - 600	160 - 600
Max. charge / discharge power (W)	5000	6000	8000	10000
Max. charge / discharge current (A)	25	25	25	25
Communication	CAN	CAN	CAN	CAN

EFFICIENCY

Max. efficiency	98.4 %
EU efficiency	97.7 %
Back-up switch time (ms)	<40
Battery charge / discharge efficiency	97.5 %
MPPT efficiency	99.9 %

OTHER CHARACTERISTICS

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

PROTECTION

Anti-islanding protection	Integrated
PV over voltage protection	Integrated
Short circuit protection	Integrated
Output over current protection	Integrated
DC switch	Integrated
DC reverse-polarity protection	Integrated
Battery reverse protection	Integrated