

MH series hybrid solar inverters

autarco

The Autarco MH series inverters offer the safest and most reliable performance for residential PV and storage systems. This hybrid inverter is compatible with li-ion or lead-acid batteries, ensuring a versatile storage solution. Equipped with back-up power and advanced energy management functionality.



Eligible for Autarco's insured kWh Guarantee



Compatible with HV Lithium-ion batteries



Uninterrupted power supply, 20ms reaction



Higher charge-discharge efficiency, improving the economic benefits



Off-grid back up and energy management functions



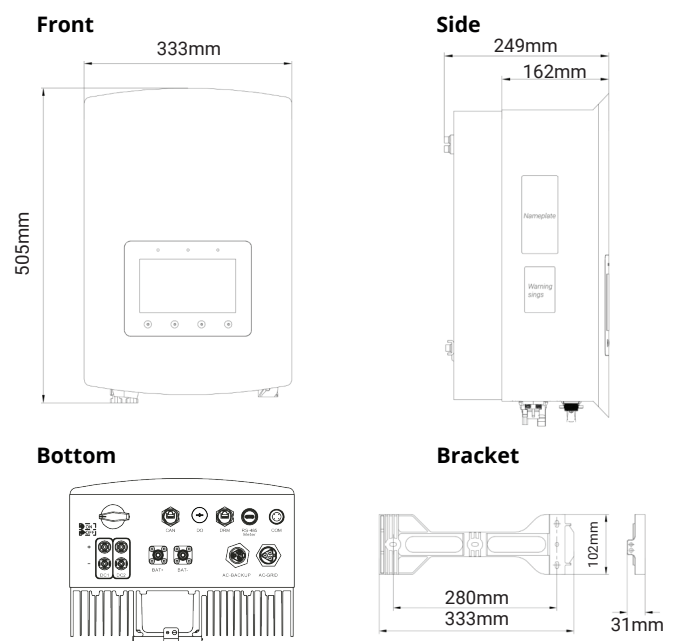
QUALITY CERTIFICATES

- ♦ IEC/EN 62109-1/-2, IEC 61727, IEC 62116, IEC 62477-1
- ♦ EN 61000-6-2/-3
- ♦ EN50549-1, VDE-AR-N 4105, VDE 0126, RD647, CEI 0-21, C10/11



GENERAL CHARACTERISTICS

Warranty	Standard 5 yrs. extendable to 15 yrs.
Dimensions (W x H x D)	333 x 505 x 249 mm
Mounting	Wall bracket
Weight	18.3 kg
Max. site altitude	2000m
IP protection class	IP65
Topology (battery)	High frequency
Cooling principle	Natural convection
Compatible battery types	Lithium-ion
DC / AC connection	MC4 / Quick connection plug
LCD display	7.0"LCD color screen display
Communication interfaces	1 x RS485 (Battery), 1 x CAN (Battery)
Optional interfaces	WiFi, GPRS
DC switch	Integrated (optionally excluded)



PV INPUT CHARACTERISTICS

	S2.MH3000	S2.MH3600	S2.MH4600	S2.MH5000	S2.MH6000
Max. input PV power (W)	7000	7000	8000	8000	8000
Max. input voltage (V)	600	600	600	600	600
MPPT voltage range (V)	90 - 520	90 - 520	90 - 520	90 - 520	90 - 520
Start-up DC voltage (V)	120	120	120	120	120
Number of MPP trackers	2	2	2	2	2
Max. DC current per MPPT (A)	11 / 11	11 / 11	11 / 11	11 / 11	11 / 11
DC connections per MPPT	1	1	1	1	1
DC connection type	MC4	MC4	MC4	MC4	MC4
Max. short circuit current (A)	17.2 / 17.2	17.2 / 17.2	17.2 / 17.2	17.2 / 17.2	17.2 / 17.2

GRID INPUT CHARACTERISTICS

Input voltage range (V)	184 - 264	184 - 264	184 - 264	184 - 264	184 - 264
Max. input current (A)	26.1	26.1	26.1	26.1	26.1
Frequency range (Hz)	45-55 / 55-65	45-55 / 55-65	45-55 / 55-65	45-55 / 55-65	45-55 / 55-65

OUTPUT CHARACTERISTICS

AC connection	220 / 230 VAC	220 / 230 VAC	220 / 230 VAC	220 / 230 VAC	220 / 230 VAC
Power connection	1-phase	1-phase	1-phase	1-phase	1-phase
Rated AC power (W)	3000	3600	4600	5000	6000
Rated AC current at 220V/230V (A)	13.6 / 13	16.3 / 15.7	20.9 / 20	22.7 / 21.7	27.2 / 26.1
Max. AC power (W)	3300	4000	4600	5500	6000
Max. AC current at 220V/230V (A)	15.7 / 14.3	18.1 / 17.3	23 / 20.9	25 / 23.9	27.2 / 26.1
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	0.8..1..0.8
Harmonic distortion (%)	>2%	>2%	>2%	>2%	>2%
Cooling principle	Convection	Convection	Convection	Convection	Convection

BATTERY

Battery voltage range (V)	42 - 58	42 - 58	42 - 58	42 - 58	42 - 58
Battery capacity (Ah)	50-2000	50-2000	50-2000	50-2000	50-2000
Max. charge (W)	3000	3000	5000	5000	5000
Max. charge / discharge current (A)	62.5	62.5	100	100	100
Communication	CAN / RS485	CAN / RS485	CAN / RS485	CAN / RS485	CAN / RS485

EFFICIENCY

Max. efficiency	97.5 %
EU efficiency	96.8 %
Battery switch time (ms)	<20

PROTECTION

DC reverse-polarity protection	Integrated
Protection class / Overvoltage categ.	I / II
Ground fault monitoring	Integrated
Integrated AFCI	Integrated

OTHER CHARACTERISTICS

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