

OH

Series hybrid solar inverters

The biggest Autarco hybrid inverter is here! The OH series is the best solution for C&I battery storage, enabling DC coupling of battery cabinets, such as BF200. Two independent battery ports, backup and generator port make sure this inverter can meet the requirements of even the most challenging use cases.

- + 200% PV overdimensioning
- + Up to 6 units in parallel to realize 750kW AC power
- + Two independent battery ports, 100A each
- + Maximum MPPT current of 42A, compatible with new generation utility scale modules
- + Achieves on- and off-grid transitions in less than 10ms, ensuring an uninterrupted power supply (via back-up port)
- + Dedicated generator port
- + Delivers 160% overload for 200ms in off-grid mode, ensuring stable startup of heavy loads

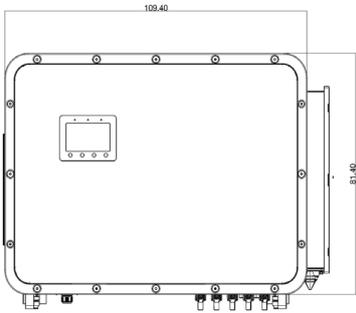


General characteristics

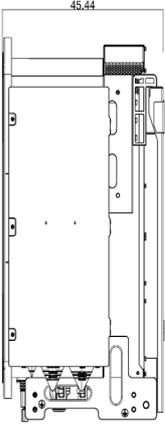
Dimensions (W x H x D)	1174 x 814 x 400 mm
Net Weight	170 kg
Mounting	Wall mounted
Max. site altitude	3000m
IP protection class	IP66
Topology	Transformerless
Cooling principle	Intelligent fan-cooling
Warranty	5 years (extendable to 10 or 15)
Compatible battery types	LFP
Display	7.0" LCD display & Bluetooth + APP
Communication interfac	CAN, RS485-115200, Ethernet
Optional interfaces	Wi-Fi, Cellular, LAN
DC / AC connection	Terminal Block
Battery connection	Terminal connector
Safety / EMC Standards	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011----
Operating temperature range	-25°C to +60°C
Relative humidity range	0% to 100%



Front



Side



PV Input characteristics

	S2.OH75000	S2.OH80000	S2.OH99900	S2.OH100000	S2.OH125000
Recommended max. PV input power (kW)	150	160	200	200	250
Max. input voltage (V)			1000		
Rated voltage (V)			600		
Start-up voltage (V)			180		
MPPT voltage range (V)			150-950		
Max. input current (A)			10 x 42		
Max. short circuit current (A)			10 x 60		
MPPT number / Max. input strings number			10/20		

Battery

Battery voltage range (V)	300-950
Max. charge / discharge current (A)	200 (100 + 100)
Communication	CAN / RS485
Number of battery inputs	2

Output characteristics (Grid side)

Rated output power (kW)	75	80	99.9	100	125
Max. apparent output power (kVA)	75-100kW: 1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms; 125kW: 1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms				
Rated grid voltage (V)	3/N/PE, 220 V / 380 V, 230 V / 400 V				
Rated grid frequency (Hz)	50 Hz / 60 Hz				
Rated grid output current (A)	114 / 108.3	121.6 / 115.5	151.8 / 144.2	151.9 / 144.3	189.9 / 180.4
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDI	< 3%				
Grid connection standards	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2				

Input AC (Grid side)

Max. input current (A)	250
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Output AC (Back-up)

Rated output power (kW)	75	80	99.9	100	125
Max. apparent output power (kVA)	75-100K: 1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms; 125K: 1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms				
Back-up switch time	< 10 ms				
Rated output voltage (V)	3/N/PE,220 V/380V;3/N/PE,230V/400V				
Rated frequency (Hz)	50 / 60				
THDv (@linear load)	<2%				

Input generator

Max. input power (kW)	75	80	99.9	100	125
Max. input current (A)	114.0 / 108.3	121.6 / 115.5	151.8 / 144.2	151.9 / 144.3	189.9 / 180.4
Rated input frequency (Hz)	50 Hz / 60 Hz				
Rated input voltage	3/N/PE,220 V/380V;3/N/PE,230V/400V				

Efficiency

Max. efficiency	97.6%
EU efficiency	97.2%
BAT charged/discharged to AC max. efficiency	97.0%

Protection

Anti-islanding protection	Integrated
Short circuit protection	Integrated
Output over current protection	Integrated
DC switch	Integrated
DC reverse-polarity protection	Integrated
AFCI	Integrated
Surge protection	II / II

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.