

COPIA-SH

Single Phase Hybrid Inverter



Support storing energy from diesel generator

Product Introduction

Copia-SH, a single-phase hybrid inverter, designed to seamlessly connect with the Myrtillo battery box, ensuring total usage of clean energy at all times. Even if the installation space is limited, the design of the split inverter and battery can meet the constraints of different scenarios.

Fancy

- Automobile aesthetic design.

Friendly

- <25dB, no noise pollution.
- IP65, indoor or outdoor application.

Reliable

- Uninterrupted power supply.
- Off-grid switching time is less than 10ms.

Integrated

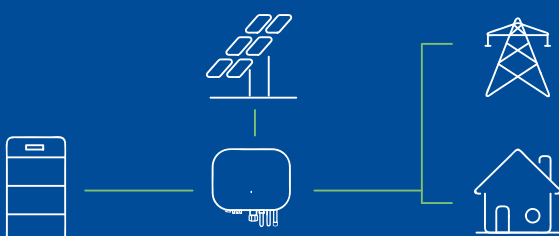
- Fanless integrated cooling design.

Effective

- High charge/discharge efficiency, up to 98.5%/97.7%.
- Less energy loss on battery and inverter interaction.

Intelligent

- Support ECOS EMS, VPP and IOT.
- Remote update and control.



- The extra energy generated by PV is charged into the connected battery by Copia-SH.
- The energy from battery can support your household load by Copia-SH.

Copia-SH Series

Technical Specifications



Model	WH-SHC362	WH-SHC462	WH-SHC502	WH-SHC602
PV Input				
Absolute Max. Voltage (V)			600	
MPPT Voltage Range (V)			100..550	
Max. DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (V)			90	
Rated Operating Voltage (V)			360	
Max. Input Current (A)			12.5/12.5	
Max. Inverter Backfeed Current to Array (A)			0	
Isc PV (A)			18/18	
No. of MPP Trackers			2	
No. of Strings per MPP Tracker			1	
Battery				
Battery Voltage Range (V)			80..500	
Max. Charge/Discharge Current (A)			25	
AC Input/Output				
Rated Output Power (W)	3600	4600	5000	6000
Rated Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power to Grid (VA)	3600	4600	5000	6000
Max. Apparent Power from Grid (VA)	7200	9200	10000	12000
Rated Voltage (V)			220/230/240	
Rated Frequency (Hz)			50/60	
Rated AC Current to Grid (A)	16	20	21.7	26.1
Rated AC Current from Grid (A)	32	40	43.4	52.2
Max. Output Fault Current (A)			57 (peak), 40 (rms)	
AC Output Max. Output Overcurrent Protection (A)			40	
AC Input Power Factor			-0.8..+0.8	
AC Output Power Factor			1(-0.8..+0.8 adjustable)	
THDi			<3%	
EPS Output				
Max. Output Power (W)	3600	4600	5000	6000
Rated Apparent Power (VA)	4320	5520	6000	7200
Max. Apparent Power (VA)	4320	5520	6000	7200
Rated Voltage (V)			220/230/240	
Norminal Frequency (Hz)			50/60 (±0.2%)	
Rated Output Current (A)	18.8	24	26.1	31.3
Max. Output fault current (A)			57 (peak), 40 (rms)	
EPS Output Max. Output Overcurrent Protection (A)			40	
Switch Time (ms)			<10	
THDv @Linear Load			<2%	
Power Factor			-0.8..+0.8	
Efficiency				
PV Max. Efficiency			97.6%	
PV Europe Efficiency			97%	
PV Max. MPPT Efficiency			99.9%	
Battery Charge by PV Max. Efficiency			98%	
Battery Discharge Efficiency			96.7%	
Protection				
Over/Under Voltage Protection			Yes	
DC Isolation Protection			Yes	
DC Injection Monitoring			Yes	
Residual Current Detection			Yes	
Anti-islanding Protection			Yes	
Over Load Protection			Yes	
Battery Input Reverse Polarity Protection			Yes	
PV Reverse Polarity Protection			Yes	
Surge Protection			Yes	
Over Heat Protection			Yes	
General Data				
Dimension (W*D*H) (mm)			500*170*425	
Net Weight (kg)			19.8	
Operation Temp (°C)			-25..+60	
Relative Humidity			0..95%	
Altitude (m)			≤3000	
Ingress Protection			IP65	
Cooling			Natural	
Inverter Topology			Non-isolated	
Over Voltage Category			III(AC), II(DC)	
Protective Class			Class I	
Active Anti-islanding Method			frequency shift	
Human Interface			LED/APP	
BMS Communication Interface			RS485/CAN	
Meter Communication Interface			RS485	
Noise Emission (dB)			<25	
Standby Power Consumption (W)			<3	
Safety and Approvals				
Safety			IEC 62109, IEC 62040	
Country			EN 50549-1, C 10/11, VDE 4105, VDE 0124, G 98/G 99, RD 1699, CEI 0-21, NRS 097	

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