



Single Phase Hybrid Inverter



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.

Integrated

Fanless integrated cooling design.

Friendly

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

Effective

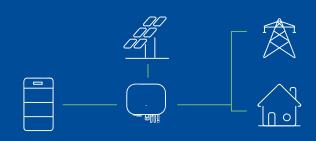
- High charge/discharge efficiency, up to 98.5%/97.7%.
- Less energy loss on battery and inverter interaction.

Reliable

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

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)		60	0	
MPPT Voltage Range (v)		100_5		
Max. DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (V)	90			
Rated Operating Voltage (V)	360			
Max. Input Current (A)	125/125 0			
Max. Inverter Backfeed Current to Array (A) Isc PV (A)	18/18			
No. of MPP Trackers	2			
No. of Strings per MPP Tracker	1			
Battery	ti−ion			
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)		220/23	0/240	
Rated Frequency (Hz)		50/6	80	
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 (:		
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)	40			
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		Vo	•	
DC Isolation Protection	Yes Yes			
	Yes			
DC Injection Monitoring Residual Current Detection				
	Yes			
Anti-islanding Protection	Yes			
Over Load Protection	Yes			
Battery Input Reverse Polarity Protection	Yes Yes			
PV Reverse Polarity Protection				
Surge Protection	Yes			
Over Heat Protection		Ye	s	
General Data				
Dimension (W*D*H) (mm)		500*170	0*425	
Net Weight (kg)	19.8			
Operation Temp (°C)	-25+60			
Relative Humidity	0.95%			
Altitude (m)	≤3000			
Ingress Protection	IP85			
Cooling		Natu	ıral	
Inverter Topology		Non-iso	plated	
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	R5485			
Noise Emission (dB)	<u>425</u>			
Standby Power Consumption (W)		<3		
Safety and Approvals				
Safety Country		IEC 62109, EN 50549-1, C 10/11, VDE 4105, VDE 0124, (IEC 62040	