

COPIA-SH

Single Phase Hybrid Inverter

ECACTUS



Support storing energy from diesel generator

Product Introduction

Copia-SH, a single-phase hybrid inverter. It can connect with Myrtillo battery box to make sure you are using clean energy all the time. 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

Flexible

Compatible with various brands of batteries

Integrated

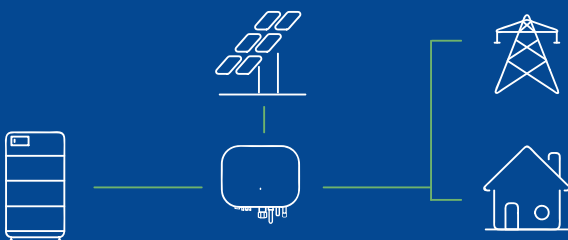
Fanless integrated cooling design

Infinite

Higher charge/discharge efficiency brings more revenue, Uninterrupted time, switching time <10ms

Intelligent

Support ECOS EMS, VPP and IOT Remote update and control



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

Copia-SH Series

Technical parameters



Model	WH-SHC362	WH-SHC462	WH-SHC502	WH-SHC602
PV Input				
Absolute max Voltage (d.c.V)			600	
MPPT Voltage Range (d.c.V)			100_550	
Max. DC Input Power (W)	4800	6200	6650	8000
Start-up Voltage (d.c.V)			90	
Rated Operating Voltage (d.c.V)			360	
Max. Input Current (d.c.A)			12.5/12.5	
Max. inverter backfeed current to array (d.c.A)			0	
Isc PV (d.c.A)			18/18	
NO. of MPP Trackers			2	
NO. of Strings per MPP Tracker			1	
Battery				
Li-ion				
Battery Voltage Range (d.c.V)			80_500	
Max. Charge/Discharge Current (d.c.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 (a.c.V)			220/230/240	
Rated Frequency (Hz)			50/60	
Rated AC Current to Grid (a.c.A)	16	20	21.7	26.1
Rated AC Current from Grid (a.c.A)	32	40	43.4	52.2
Inrush current (a.c.A)			16 a.c.A (peak), 11.3 us (duration)	
Max. output fault current (a.c.A)			57 (peak), 40 (rms)	
AC output Maximum output overcurrent protection (a.c.A)			40	
AC input power factor			-0.8_+0.8	
AC output power factor			1(-0.8_+0.8 adjustable)	
THDi			<3%	
EPS Output (With Battery)				
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 (a.c.V)			220/230/240	
Norminal Frequency (Hz)			50/60 (±0.2%)	
Rated Output Current (a.c.A)	18.8	24	26.1	31.3
Inrush current (a.c.A)			16 a.c.A (peak), 11.3 us (duration)	
Max. output fault current (a.c.A)			57 (peak), 40 (rms)	
EPS output Maximum output overcurrent protection (a.c.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			IEC62040.1:2019 IEC62109-1&-2	
EMC			EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021	
Certification			AS/NZS 4777.2:2020 VDE-AR-N4105 G98/G99 CEI 0-21	

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