



zeroCO₂[®] large

5-10 kW

Three-phase Hybrid Inverter for Storage

Features:

- Suitable for domestic and commercial users;
- Parallelable up to 10 units;
- Meter and Wi-Fi module included;
- Possibility of retrofit installation;
- EPS, in the event of a grid blackout, for a maximum of 10 kW of continuous power and 10kVA of peak power;
- Compatible with Pylontech high voltage batteries;
- Three operating modes (maximum self consumption; timed use; off-grid backup);
- Possibility of "zero grid entry" function;
- Suitable for energy communities;
- 5/10 year warranty, IP65 protection.

Models:

RHI-3P5K-HVES-5G
RHI-3P6K-HVES-5G
RHI-3P8K-HVES-5G
RHI-3P10K-HVES-5G

Dimensions:

Height: 455 mm
Width: 535 mm
Depth: 181 mm
Weight: 25,1 kg



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Model	RHI-3P5K-HVES-5G	RHI-3P6K-HVES-5G	RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G
INPUT DC (PV SIDE)				
Max. DC input power [kW]	8	9.6	12.8	16
The max DC input voltage [V]	1000			
Rated DC voltage [V]	600			
Start-up DC voltage [V]	160			
MPPT operating voltage range [V]	200-850			
Max. Input current [A/B]	13A/13A		26B	26B/26B
Max. Short circuit current	19.5A/19.5A		39/19.5A	39/39A
MPPT number/Max. Input strings number	2/2		2/3	2/4
BATTERY				
Communication	CAN/RS485			
Battery voltage range [V]	160 - 600			
Max. Charging power [kW]	5	6	8	10
Max. Charge/discharge current [A]	30A			
OUTPUT AC (BACK-UP)				
Rated output power [kW]	5	6	8	10
Max. Apparent output power [kVA]	5	6	8	10
Peak apparent output power [kVA, sec]	10kVA, 60sec	12kVA, 60sec	16kVA, 60sec	16kVA, 60sec
Back-up switch time [ms]	40			
Rated voltage and frequency [V-Hz]	230/400V - 50/60Hz			
Rated output current AC backup side [A]	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Max. output current AC backup side [A]	8.4A	10A	13.4A	16.7A
THDi	<2%			
OUTPUT AC (GRID SIDE)				
Rated output power [kW]	5	6	8	10
Max. Apparent output power [kVA]	5	6	8	10
Rated grid voltage and frequency [V-Hz]	230/400V - 50/60Hz			
Rated grid output current [A]	7.6A/7.2A	9.1A/8.7A	12.2A/11.5A	15.2A/14.4A
Max. output current [A]	8.4A	10A	13.4A	16.7A
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi	<2%			
EFFICIENCY				
Max. efficiency	98.4%			
EU efficiency	97.7%			
MPPT efficiency	99.9%			
Battery charge/discharge efficiency	97.5%			
PROTECTION				
Anti-islanding protection	Yes			
Output over current protection	Yes			
Output short circuit protection	Yes			
DC Switch	Yes			
DC reverse-polarity protection	Yes			
PV over voltage protection	Yes			
Battery reverse polarity protection	Yes			
GENERAL DATA				
Dimensions [WxHxD] [mm]	535x455x181			
Weight [kg]	25.1			
Topology	Transformerless			
Self consumption (night)	<7W (night)			
Operation temperature range [°C]	-25~60			
Relative umidity	0~100%			
Protection degree	IP65			
Cooling concept	Natural convection			
Max. operation altitude	4000m			
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, CEI 0-21			
Safety/ EMC Standard	IEC 62109-1/-2, EN 61000-6-2/-3			
AC and DC Connections	Quick Connector / MC4 connector			
Display	LCD, 2x20Z.			
Communication	RS485; CAN; WiFi (optional)			
Warranty	5 years (10 years if monitoring)			

The information in this brochure is not binding. Energy Srl reserves the right to make changes at any time without notice.

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