



zeroCO₂[®] large

6-10 kW

Three-phase Hybrid Inverter for Storage

Features:

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



Dimensions:

Width: 535 mm
Height: 455 mm
Depth: 181 mm
Weight: 25.1 kg



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Model	RHI-3P6K-HVES-5G	RHI-3P8K-HVES-5G	RHI-3P10K-HVES-5G
Order Code	90050955	90050960	90050965
INPUT DC (PV SIDE)			
Max. DC input power [kW]	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]	13/13	26/13	26/26
Max. Short circuit current	16.5/16.5	32.5/16.5	32.5/32.5
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]	6	8	10
Max. Charge/discharge current [A]		25	
OUTPUT AC (BACK-UP)			
Rated output power [kW]	6	8	10
Max. Apparent output power [kVA]	6	8	10
Peak apparent output power [kVA, sec]	12, 60sec	16, 60sec	16, 60sec
Back-up switch time [ms]		40	
Rated voltage and frequency [V-Hz]		230/400 - 50/60	
Rated output current AC backup side [A]	9.1/8.7	12.2/11.5	15.2/14.4
Max. output current AC backup side [A]	10	13.4	16.7
THDi [%]		<2	
OUTPUT AC (GRID SIDE)			
Rated output power [kW]	6	8	10
Max. Apparent output power [kVA]	6.6	8.8	10
Rated grid voltage and frequency [V-Hz]		230/400V - 50/60Hz	
Rated grid output current [A]	9.2/8.7	12.2/11.6	15.2/14.5
Max. output current [A]	10	13.4	16.7
Power Factor		>0.99 (0.8 leading ~ 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, Output over current protection, Output short circuit protection, DC Switch, DC reverse-polarity protection, PV over voltage protection, Battery reverse polarity protection			
GENERAL DATA			
Dimensions [WxHxD] [mm]		535x455x181	
Weight [kg]		25.1	
Topology		Transformerless	
Self consumption (standby) [W]		15	
Operation temperature range [°C]		-25~60	
Relative umidity		0~100%	
Protection degree		IP65	
Cooling concept		Natural convection	
Max. operation altitude		4000m	
Grid connection standard	G98 o G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/VFR:2019, RD 1699/ RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA		
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 [years]	5 (*)		

(*) extendable to 10 years with "Energy Care", order code 99990050

